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The Desert Sentinels.

By Georgina S. Townsend.

THE CACTUS crank of the East, who sends to all parts of the world for different varieties of cacti, and who has a window full of the prickly things, would surely be delighted with the cacti of Southern California. As a rule, collections are confined to the parks. Some few private places have a cactus corner. I myself have a cactus bed, planted out ten months ago. It is a spot the kitten goes over on a flying leap, the pups fight clear of it, and I with hose in hand waltz around it, so not to become "stuck up." Weeds grow among the cacti in perfect safety, because I dare not pass the savage sentinels, to get at them. Cacti grow with great rapidity here, and attain enormous sizes. In the parks the gardeners make use of a great many varieties, both native and foreign, but a century ago, when the mission fathers from Spain came up the Pacific Coast and established their cordon of missions, they utilized the native prickly pear, known as Indian fig. At every mission, a hedge of these figs was planted along the north boundary of the mission grounds. And today, at any of these missions you will find a huge impregnable wall of living cacti in bloom and fruit most of the year.

An illustration (page two) shows a hedge at the old mission of San Fernando, a mission not very many miles from my present home. This hedge extends the length of a mile along the north boundary. It is supposed that the mission fathers planted these hedges to break the occasional north wind which sweeps across the warm southern clime at times during winter, but as they planted few or no tropical plants or trees which would suffer from the blast, it is more probable that they intended the hedge as a protection against the savage tribes of Indians at the north. Whatever the quaint motive, the hedges are standing today, alive and lusty, while the mission fathers, the Indians, the Spaniards, all are gone and nought remains except cacti hedges, ruined missions and queer cemeteries filled with stones graven in the Spanish tongue.

Behind this hedge can be seen the tops of the olive trees over one hundred years old. They are alive and bearing to this day.

It is said that the cactus display in the park at Riverside, Cal., is the finest in the world. The picture (page two) gives an idea both of variety and size, in a very small corner. In the last three years Los Angeles has grown a very fine cactus garden in Eastlake park. The illustration on page two gives a slight idea of the great variety of species which may be found growing there. Some of the great spine-covered masses represent to most people the true cactus type better than the *Cereus* or *Opuntia* species do.

The picture of one in bloom gives a very clear idea of the great beauty of cacti as blooming plants. There is no beauty in a cactus plant, but the blossoms compensate.

"My Lady Heliotrope."

By Mrs. J. A. Wood.

Just as "The man who wants to see me is the man I want to see" tells the story of a true psychological law of response to interest, so, in the experience of each one born with an impulse to plant, there are plants really beloved—held in the heart—and they are always those who respond with growth and sweetness to our expenditure of interest and care.

I was a very little girl, long ago, when the first picture of James Vick appeared in

"The Floral Guide" and I pleased my family by announcing as my young reason for the benignity of the face, that "he had been smelling flowers all his life." Why should he not be benign? What plant would dare withhold its very best from so wise and loving care? Out of all that my soul holds dear for such response stands out a heliotrope—a cutting planted in the open ground in the spring, enriched and well watered through the summer but not allowed to bloom,—each branch lost its heart as soon as it had grown about four inches so that in late September, when I potted it in good rich soil I had a stocky, strong plant of many branches each of which, as soon as it had adjusted itself to its new conditions developed a strong bud cluster.

On Thanksgiving Day I cut my first half dozen clusters of the sweet and lovely blossoms to carry to my hostess. All through the winter, about once a week I had several strong clusters to send to some shut-in, never allowing a flower to fade on the plant. I kept it in a sunny window and every few days sprayed it with luke warm water and once a week gave it a plant food.

The plant branched out with every cutting away, of course that it might bring forth more, and the climax was reached on April sixth when it rose to the occasion

of the seventieth birthday of the dearest Grandma in the world with exactly seventy cluster of buds and blossoms, small clusters to be sure after such valiant work all winter, but still enough to fitly honor the more than complete fulfillment of life—by reason of strength—to three score and ten.



A CACTUS PLANT IN BLOOM.

Woodland Lessons.

BY MAURICE B. ALLISON.

Naught but dross are place and treasure
At those times you count or measure
Riches found of health and pleasure
Close to nature's woodland heart.
Not a throb is one of sadness,
Pulsates only Eden's gladness,
Never felt on city mart.

Sweet tongued poets, clear-eyed sages,
Lonely dreamers through all ages
Culled no lore from dusty pages

Like wise nature's heart doth hold—
Earth-old rocks and oak-trees hoary
Tell a far more wondrous story
Than all books how cycles rolled.

From the rocks the lesson borrow
That calm patience through deep sorrow
Wins for all a golden morrow,
When comes joy and sweet repose,
While the sunset's glowing splendor
Makes your cold heart warm and tender
As the June tide's reddest rose.

Nasturtiums on Inclined Trellis.

By Florence Beckwith.

A very effective way of training Nasturtiums was noticed last summer. The seed was sown in a bed in front of a house, about twenty inches from the foundation wall. A wire screen about four feet high, such as used for poultry yards, was set up back of the row of plants, the top resting against the house. The slight inclination of the screen threw the blossoms into prominence and they made a much finer display than they do when the support is vertical. Every flower seemed to show.

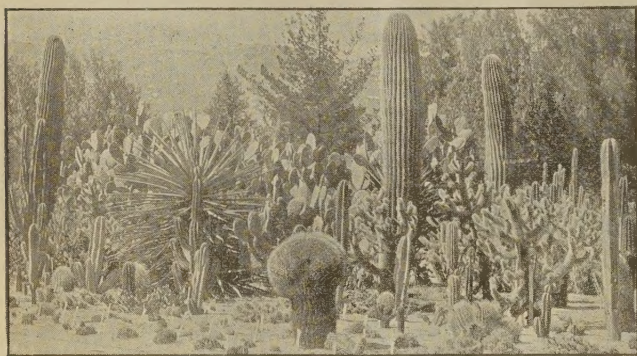
Mixed varieties were planted, of the Hybrids of Madam Gunther type, and the blending of colors was very pretty. Yellow, crimson, bronze, salmon-rose, pink, and maroon colored flowers vied with striped, blotched, mottled and variegated ones in making a brilliant display. The soil was not so rich as to induce a too luxuriant growth of vines and leaves, consequently more blossoms were produced. The light, almost transparent green foliage of some varieties contrasting with the dark, purplish tints of other kinds, helped to heighten the effect. I did not notice a prettier showing of Nasturtiums anywhere last season.

For Next Winter.

BY EMMA CLEARWATERS.

Does it seem previous to think of next winter's flowers, ere summer is hardly here? Notice though that the one who commences early in preparing for the winter window garden has the nicest plants and the most blossoms.

No collection is complete without at least a few



Corner of Cactus Display in Park at Riverside, Cal.

geraniums. Many successful window gardeners prefer to take slips of the nicest plants in July for the next winter's plants; others prefer to use an older, larger plant. Both ways are good, more depending upon the varieties of geraniums selected, and most upon the care given the plants. Of course it is reasonable that a large plant with many branches will give one more flowers than will a small one, but the younger plant if well managed, will have quite a number of nice branches before winter. The older, harder-wooded plant will not be so easily touched with frost.

Whichever way one decides to do, it is best not to allow any buds to form until late; pinch them out as soon as they can be distinguished from the leaf-buds. If slips are used, pot them in six or eight inch pots as soon as well rooted, using one-third rich clay, the rest rich, well-decayed barn yard soil with enough sand or soot added to make the soil lively. Pot deep enough so the plant will stand firmly; plunge the pot in a bed where the forenoon sun will shine, and never allow the plants to suffer for water.

If an older plant is chosen, prune the scraggly branches all out, pot in the vessel it is to remain in next winter, using soil as above, and plunge in an eastern exposed bed. Prune all plants as needed to keep shapely and dis-bud all the time. Do not remove from the bed until sharp frosts threaten, then take as much of the soil from the pots as possible without disturbing the roots, filling in with rich soil. After scrubbing the outside of pots, place on a porch, gradually accustoming them to inside air. (This applies to all plants). Do not dis-bud any more, unless it is a mal-formed bud. Such geraniums, if varieties like La Favorite, S. A. Nutt, Mrs. E. G. Hill, Mars and Souvenir de Mirande are chosen, should give lots of flowers, in a sunny window, all through the winter.

The Primrose.

BY KATHERINE A. SUITER.

For those who have no south windows there is no flower that will prove as satisfactory as the Primrose. No flower is more sweet, none will yield such quantities of bloom and none is more easily grown.

To grow fine plants there are three essentials, 1st good seed, 2d good soil, 3d thoughtful care. A packet of mixed seed will be likely to prove the most satisfactory, and will generally give a good range of color.

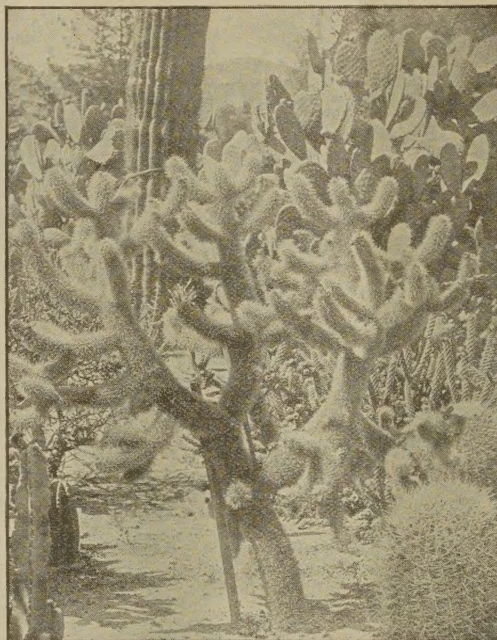
Prepare the soil, having procured the seeds, taking woods earth, sand and garden soil in equal parts, or you may take ½ woods earth and of sand and garden soil equal parts, sift thoroughly until the soil is thoroughly blended. A seed box, or flat, as florists call them, should be in readiness. It can easily be made by any one who can handle a saw and hammer. Procure a small box from your grocer, saw it in two lengthwise using the cover for bottom of one box, nail sides and bottom securely, bore a few ¼ inch holes in bottom to provide drainage. Then cover bottom of box to the depth of at least an inch with the pebbles, tiny sticks and partly decayed leaves sifted from the soil, then put in the sifted soil, jarring the box sharply to settle it well, level it nicely with a small flat block of wood, water thoroughly, and allow it to drain an hour or two. When it has drained sufficiently take a small straight stick or ruler and mark off your box in rows one or one and a half inches apart. Scatter the seeds evenly and thinly in the rows made, cover lightly with sifted soil and firm covering gently with ruler. Then watch carefully, do not allow seed-box to dry out, neither keep too wet. In about two weeks the little plants will begin to appear, they make rapid growth. I have plants now that

began blooming before Christmas, which were grown from seed sown after the middle of July. But it is better to sow in April or the latter part of March, then the plants will be larger and ready to bloom by the time they will need to be taken indoors. Those who cannot get the small pots in which to transplant the little seedlings will find egg shells a very good substitute; we save the shells from all the eggs we use for that purpose. When using eggs we break the small end, breaking away enough shell to allow the yolk to be removed without breaking the same.

When we need the shells for planting we use an awl to break a small hole in bottom of shell for drainage, first placing shell on a board or block of wood. Then we fill them with fine rich soil, setting the shells in one of the seed flats, from which some of the earth has been removed, or not filled as full as for sowing seeds—and filling fine soil around and to top of the shells. The little plants are then transferred from the seed box to their individual homes and how they do grow. Keep box in a shady place but where there is a free circulation of air; under a tree is a very good location.

When the plants need larger pots, the egg shells can be broken and the plant set in the pot without disturbing a root. When the plants begin to bloom give a fertilizer. If you can procure Plant Food I would use it. If you cannot do so, use liquid manure made by pouring boiling water on hen manure or cow manure and allowing it to cool. Pour off the clear liquid and dilute until the color of weak tea. Give ¼ pint to each 4 or 5 inch pot every two weeks.

Of the different varieties the Chinese Primrose is Perhaps the prettiest, but P. Obconica and P. Forbesi



Native Cacti in Eastlake Park, Los Angeles, Cal.

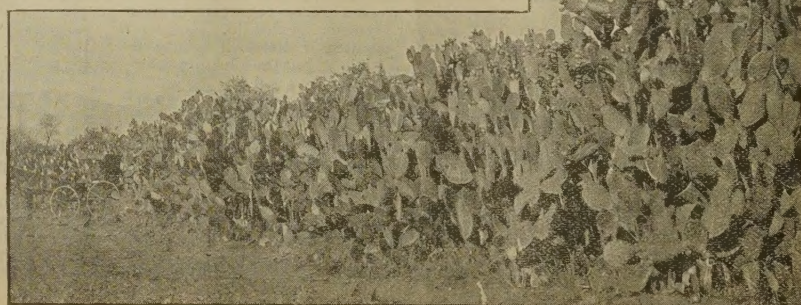
(Baby Primrose) are close seconds and are as easily raised from seed.

Every flower lover will surely be pleased with a collection of Primroses, and watching them grow, and the different blossoms unfolding are among the greatest pleasures.

Primula Obconica.

BY FLORA LEE.

I had found these rather difficult plants to take through the summer successfully, until I tried planting them out in the open ground. I do not usually care to do this with house plants, but these do not object to being disturbed in the fall, and are in fine condition. I rest them as much as possible



Cactus Hedge Planted by the Mission Fathers in 1763.

while in pots during May, plant out about June 1st, and lift them the first part of September. After such treatment they bloom abundantly in winter.

Centaureas Very Early.

By S. B. HOPKINS.

Centaurea cyanus, variously known as bachelor's button, blue bottle, corn flower, has always been a favorite. Its attractive flowers are especially desirable for *boulonnieres* on account of their lasting qualities. They can be had extra early by sowing the seed in the latter part of July. You will have strong plants several inches high before cold weather comes. These being very hardy, can remain outdoors over winter. As far north as St. Louis they require no protection whatever and begin to blossom about the time spring-sown seeds are sprouting; hence flowers all season.

A New Way to Make a Fern Ball.

BY FLORA LEE.

Make a hole at least an inch in diameter in bottom, and as many as possible in sides of a condensed milk can. The tin is thin and size right (half-pint). Into the bottom hole of this foundation insert the roots of a small fern from the woods; turn can right side up; cover roots with leaf mold; put in more ferns (of uniform size) in lower holes; fill in leaf mold, then ferns again; continue this to top, where several should be planted. Cover can with moss, hang and keep well watered.

Beautiful Flowers.

BY MRS. A. R. PERHAM.

Beautiful flowers, they come with the spring;
Come when the birds are returning to sing;
Making earth beautiful, making it bright,
Bringing to weary hearts untold delight.

Beautiful flowers, through summer they stay.
Making the fields and the meadows so gay,
Filling with grandeur the garden retreat,
Shedding about us their fragrance so sweet.

Beautiful flowers, in autumn's cold blast,
Seeming more beautiful then to the last;
Like the true friends who will lovingly stay,
E'en when all others turn coldly away.

Beautiful flowers, they give us delight
When winter comes with its garment of white,
Still in our dwellings their presence shall cheer,
Though all without may be frozen and drear.

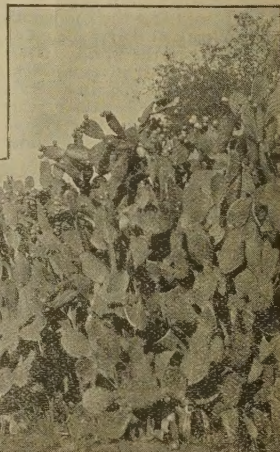
Beautiful flowers, they gladden our way,
Oft for the sick they have brightened the day,
Silent, yet telling of God's love and care,
Who has arrayed them in colors so fair.

Beautiful flowers, the wedding they grace,
And round our dear ones departed we place,
And when loved faces are hidden from sight,
Scatter above them the blossoms so bright.

Petunias.

BY ALICE MAY DOUGLAS.

Petunias are easily grown from cuttings. Those about six inches long do best. Place these in sand about four inches deep, place a tumbler over them and keep in the shade. Admit air daily, gradually increasing the supply until the glass can be removed.



Hypericum Moserianum.

By Florence Beckwith.



ONE of the brightest and prettiest of summer-blooming perennials is Hypericum Moserianum, or Gold Flower. The plant is rather dwarf in habit, only reaching a height of two or two and a half feet, with graceful, pendulous branches. It is remarkably free-blooming, the long, slender, much-branched stems apparently drooping from the weight of the flowers and buds. The foliage is a handsome dark green, the upper side of the leaves much darker than the lower. The blossoms are of the brightest, golden yellow, measuring from two to three inches across, with a great quantity of yellow stamens tipped with crimson, which render the effect of the flowers still more pronounced.

A little distance away the blossoms look like single yellow roses. The glossy golden petals and clustering stamens make a truly exquisite flower, and, though borne in the greatest profusion, each blossom seems to face in such a way that all its beauty is displayed. The dark green foliage makes a fine background for the great, showy, yellow disks, which gleam like burnished gold.

Beginning to bloom in June, the bush will flower continuously until October. The leaves have the same odor and the same resinous dots as those of the common St. John's-wort, to which family it belongs, but the Moserianum has none of the coarseness of most of the other members of the genus, and the blossoms are the showiest of all the one hundred and seventy or more species.

Grown in masses the Gold Flower makes a beautiful show. It is useful in the front of a border of shrubs, or for planting among taller bushes which do not cover the ground. It can be grown in shady places where other plants do not thrive, and will succeed in rather poor soil, but it deserves to have good soil and the best of care. In the South it is said to make a beautiful dwarf hedge for winter effects, the foliage turning to a sort of purplish hue.

The plant is considered by some perfectly hardy, others style it half-hardy. It is apt to be injured in winter if in an exposed situation, and should be protected by



HYPERICUM MOSERIANUM.

branches of evergreens or rough stable litter. If covered, the shrub will retain its leaves all winter. If the branches are killed back it will start out lower down, or from the root. The old, dead wood should be trimmed out early in the spring to make room for new growth. It can be propagated by cuttings during the summer.

If you want a charming summer-blooming shrub of low growth and beautiful golden blossoms, try the Gold Flower.

Calla Culture.

By Georgina S. Townsend.

I am constantly in receipt of letters begging me to give explicit directions how to raise Callas successfully. Lately when I dug out a border for asters, I thought how surprised these Eastern floral friends would be, to see me dig out, with small patience, the hundreds of calla bulbets which were pestering that border, like any common weed. If the corms are thrown any where, that place will soon be infested with small ones. While callas are very pretty, they are a nuisance sometimes, so it amuses me a little to think of giving advice how to grow them. How not to grow them is the advice I sometimes need.

But I remember when I lived "back East" in that awful country of cold and heat, blizzards and cyclones, I always had good luck with callas then. But as everyone has always said, "You have such luck. You can make anything grow."

I always got a good blooming size corm, which ought to be half as large as one's fist. I planted it in an eight-inch pot in one-third old barn yard earth, one-third sand, one-third loam, well mixed. I always had a handful of charcoal and broken crock in the bottom of the pot. I also had a deep saucer for the pot. Then I soaked the calla, set it in a sunny window, and before long it started to grow. Every morning I poured hot water in the saucer, and tepid water in the pot. Callas grow on water. I gave a fertilizing tea about once a month. They bloom about three months after growth starts, and a good corm ought to produce several blossoms. The leaves should be kept clean, and the calla should have all the sun possible, although in our climate, they do best on a north side of the house.

After blooming it can die down, be dried off, and left in the pot under a bush until fall. Then it should be repotted in new soil. There is no reason why one can not succeed if they treat a calla in this way.



The Arrangement of Flowers

Third of a series of four illustrated articles on this subject.

By N. Hudson Moore.



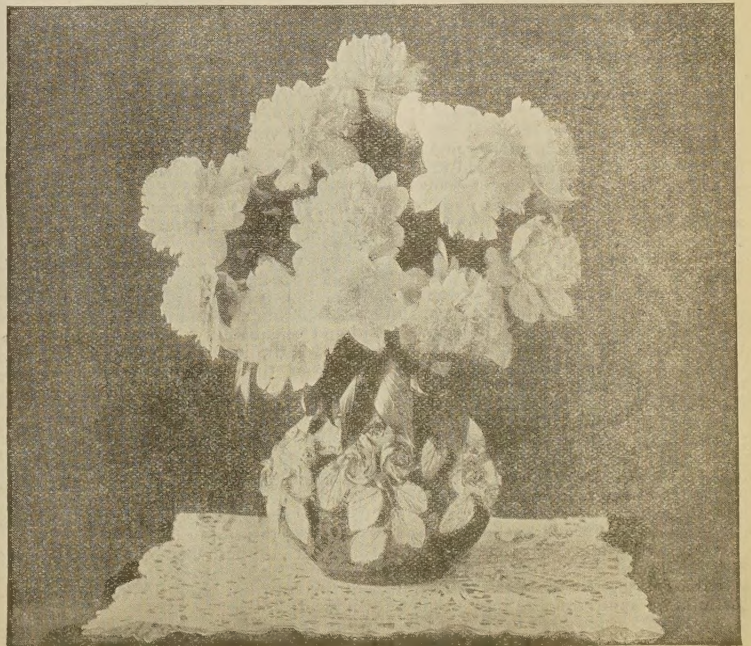
HERE are not many flowers that lend themselves to more graceful arrangement than violets, provided that they are properly treated. The idea of many people is, first of all, to banish the natural leaves of the plant, and substitute others. This is a great mistake, and the leaves of the flower itself should always be chosen, except in those rare cases where they are so stiff or ungraceful, that they spoil the effect.

Violets are generally tied in little tight bunches that are all very well for the corsage, but when they are selected for table decoration, they need to be dealt with otherwise. Nothing is more beautiful than a bunch of the large single California violets with their own rich, dark green leaves. The illustration shows admirably what an ornamental centre piece they make, and the splendid purple against the white of a table cloth is one of those satisfactory compositions of color, that give pleasure to the eye, one of the first senses to be gratified at a successfully arranged dinner table. If there are the wild crowfoot violets growing in your neighborhood, they are quite as lovely as the California ones, and have the further merit, of being had for the picking.

Cut glass is the sort of receptacle to be used in this case, or at any rate, nothing showing color, since the color of the flowers themselves is quite strong enough, and generally suffers by the combination with any other.

On the other hand, the flowers so effectively shown in second illustration, can take quite an amount of color on the table beside, and not be thrown in the shade. I remember distinctly a very charming dinner, where the flowers were pale pink peonies, and they stood on a cloth embroidered with a darker shade of pink, and when a splendid piece of salmon was brought on, its color harmonizing with the flowers, it was one of the most effective color schemes I ever saw.

The peony of to-day is a very elegant flower, quite different from the "piney," as our grandmothers used to call it, and there is hardly a garden that has not a bush of it, so that it is easily obtained, and when cared for by having fresh water added each day, it will keep fresh for some days. Here too, the leaves are of only secondary importance to the blossoms themselves, though it is often trying to sacrifice buds for the sake of getting them. But if the buds are not too immature when plucked, they will open, and are almost as lovely as roses themselves. The peony is a favorite flower with the Japanese, they use it constantly in their paintings, and after their favorite fashion of placing one absolutely perfect flower in a vase, rather than a bunch, where the effect of each separate flower is lost. In their flowery land peonies reach a wonderful size and beauty, but our own are fine enough to make them admirable during that all too brief season when they ornament our gardens.



Through Fields and Woodlands



By N. Hudson Moore



HE russet wren glides in among the vines,
And adds another strand unto its nest.
Then, on the neighboring trellis, pours its song.
The poor man's cottage is its favorite haunt;
And he is poor indeed, who to his roof
Can welcome not this yearly visitor,
To cheer his door with music!"

Thomas B. Reed.

Birds About the House.

The year 1888 was exceedingly disastrous for bluebirds, for it was the year of the great blizzard, and for many days they were without food. Very slowly but quite surely they have been increasing, however, and now they are present in their usual numbers, and are coming about our houses, for in these years we have learned the necessity of caring for and protecting our birds, and appreciate more fully the pleasure of having them our neighbors and friends.

Of all our familiar birds, there is none that has a warmer place in our hearts than those that wear the coat of blue. To be sure the female is not so gaily fitted out as the male in the matter of color, but she has winning ways of her own, and her sterling qualities make up for her plainer dress. This year there have been many little families within city limits, all that have come within my notice being the residents of boxes provided for them, showing that they like this kind of home, and that they will seek it out, even if it is among many houses, near to the noisy trolley, and subjected to the depredations of boys and cats.

To be precise, I know of eleven boxes where bluebirds have built this spring, all of them put up this year, and some of them in places where these birds have never been in the habit of coming.

It is one of the prettiest sights in the world to see a pair start housekeeping. When they first discover the box, there is a perfect chatter, which sounds as if they were saying:

"Well, what do you think of it? Will it do? Do you think the roof won't leak?" And they go in and out, and round about, examining every nook and cranny, till you almost get discouraged, and think that there is something faulty with the construction, and that they have discovered it. But have patience, they are only making up their minds, and after due consideration you will be charmed one day, by seeing them going in and out with sticks and straws, and realize that you have tenants at last. They are very devoted, and he helps quite as much as she will allow, and does not contribute his share by sitting on a branch and singing to the wide world, as many other varieties of birds do.

You can easily tell the male from the female, and if you will watch, you will see that the bright blue coat goes in quite as often as the dull blue one. When building is quite over, and the eggs are laid and incubation commences, you see the male at his best. He is always at hand, and if the intrusive sparrows come too near he drives them away, although he cannot bear them, hating even to notice them enough to attack them. Then peace once more restored to the spot, he comes to a twig near the nest, and flutes to her who sits inside, that all is well.

Perhaps he will tell her that as he comes, for it is one of the bluebird's charms that he sings as he flies. The box shown in the pictures was placed in an orchard, and surely there was never a choicer situation. When the photograph was to be taken, there was doubt as to whether she was on the nest, or off for food. But a gentle tap at the foot of the tree made her pop her head out to see who had rapped, and if any harm threatened. She did not like the preparations, but when they were concluded she returned to the nest, and you see her just going in.

Wrens will come very often, if you prepare boxes to their liking. The box must be small, and it must have an opening not larger than a quarter of a dollar. This small-sized hole has the merit of keeping out the sparrows also. Even these acrobatic birds cannot squeeze into an opening as small as that.

A robin does not seem to like to build inside anything as confined as a box. She

seems to need plenty of fresh air. She will however, accept with thanks, a shelf nailed on most anywhere. I saw one very fine nest built on what had been intended as a perching-board to a box nest. She would not think of using the box itself, but on the board she built her mud-lined home in plain sight, with strings that had been put out for her benefit, and which she was quick in appropriating.

I sometimes wonder how birds find the particular material which they wish for their nests. One never sees any horsehair lying about, yet there are a number of birds that always use this material, either to line their nests or to attach it to the branch. Each year it must be found and it is. I have seen an oriole pick to pieces a summer yellowbird's nest and take out with care each bit of horsehair that was there. I believe that there were more than twelve long hairs in it, for she came twelve times to the nest, and each time flew away with hair; I could not see that she took more than one at a time. When she had enough horsehair to bind the nest to the bough, she then took woolen yarn that I had hung on some bushes for her, showing that there was nothing haphazard in her methods, but that she proceeded by regular well laid plans.

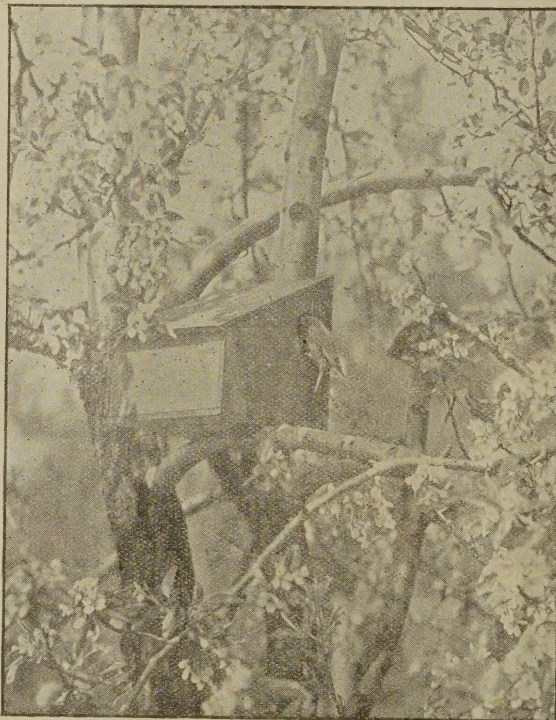
Bits of cotton waste stuck about in conspicuous places will be eagerly taken by any number of birds, robins, bluebirds, summer yellowbirds, least flycatcher, the sparrows, and in fact all of the varieties of little birds that build about our homes.

The catbird seems to care little for string or yarn, but she is grateful for bits of soft paper, and any bits of rag that you will put out for her, provided that they are not too bright in color. She builds a poor nest, does the catbird, but then he decorates the whole nesting period with such elegancies of song, that we could pardon a much more slipshod affair. The situation of the nest of the catbird is always pretty in the extreme, in some closely set thicket, or low bush. These birds will not build in boxes, either, but a pan of water put out to attract them, will often cause them to build in your neighborhood, and you may be grateful for anything you can do, that will bring such a peri within your gates.

The warbling vireo is another lovely bird that often builds near our homes. I have never yet been able to find out any one thing that would attract him. He will not come for water, that is I have never been able to detect any, and he will not come for food. In fact he is a bird of the tree tops, particularly elms, in this neighborhood, and he seldom comes low enough for one to gain an acquaintance with his ways. But his song is always refreshing, and you will hear it quite as sweetly in a blistering July day as in the cooler May weather. A soft damp day will serve to make the birds delightfully vocal, and on such a day I often go to the woods, sure that I shall be richly rewarded for getting wet, by hearing songs

that the sunshine does not always call forth.

The purple finch is a wonderful songster and it will gladly come near your home for seeds and water. Indeed I believe that there are more of these birds about than people believe. They are not at all shy, the females can be easily mistaken for some of our common sparrows, and often the male is not much in evidence. He is not a conspicuous bird at all, till his second year, when he takes on the purple wash that gives him his name. In my experience there is always more than one female to a male, but a single male bird can make music for half an acre of ground, and not strain his throat to do it.



THE CLOVER.

Some sings of the lily, and daisy, and rose,
And the pansies and pinks that the Summertime throws
In the green grassy lap of the medder that lays
Blinkin' up at the sky through the sunshiny days;
But what is the lily, and all the rest
Of the flowers, to a man with a hart in his brest
That was dipped brimmin' full of the honey and dew
Of the sweet clover-blossoms his babyhood knew?

James Whitcomb Riley.



Grandma's Sunday Shoes

A PRIZE STORY IN OUR LATE CONTEST

BY MRS. J. B. WALKER

Walnut Hill, Nov. 22, 19—.

My Dear Leah:—

Now that I am again temporarily free from my old enemy rheumatism, I gladly avail myself of the first opportunity to comply with your request for a sketch of my early life.

Let me warn you at the beginning, however, that it is very doubtful whether the coveted sketch, or my fragmentary remembrance of "folk lore and traditional events concerning the Thorns," prove of much assistance to you in establishing a "coat of arms." (Shade of Uncle Gideon defend us!) Still I do not wish to dishearten you in your effort, or fad—neither am I less partial to my namesake than I was to your sister, whose craze for collecting curios left me destitute of old-time cream jugs and darning gourds, and drove me to the verge of saying—! There! I know you are growing impatient with this long preamble, but you must bear in mind that old people don't like to be hurried, especially to delving among the misty archives of auld lang syne for material to construct a coat of arms. From my earliest recollections we, the Thorns, were respectable, industrious, and poor. Poor

as the preceding generations of Thorns whose belongings consisted of nothing worthy of mention except large families of bright-haired children, mostly girls. As a would-be punster of yore olden time expressed it:

"The Thorns have plenty of gold
(in their hair!)

Also lots of "turnips," (on their
noses fair!)

And mo' "lasses," I'll wager a
crown—

Than a dozen families in all the
town."

Yes dear, you have the typical Thorn nose, exact copy, freckles and all—of your great-aunt Olive Thorn; and I assure you there is no cause for blushing at the resemblance, for despite her tip-tilted nose and hair the shade of your sister Patti Mai's "Titian tresses," she was one of the comeliest women of her day. Speaking of Patti Mai reminds me to inquire if she wasn't christened Patsy Mahala for her maternal grandmother? Yes! Well, her father's mother don't blame some folks for doctoring their names.

Since we have no reliable data for tracing our genealogy back to William the Conqueror or the landing of the Pilgrims I think it is best to begin with my paternal grandfather, Joshua Thorn, and his twin-brother Caleb; both of whom were prominent among their backwoods neighbors, the former as a trainer of horses, and the latter as a bee hunter. Family tradition relates that my grandfather lost his life by a kick from a vicious animal, and the fate of his brother Caleb was equally deplorable for he, poor unfortunate!—after chasing the wild bee and reveling in its amber store until time had whitened his tawny locks, suddenly went on a matrimonial chase which terminated in a bullet through his brain because another man's wife refused to share his log cabin and honey comb. Coming on down to the next generation we find: Joseph Thorn, blacksmith, (my father); Gideon Thorn, farmer, (my uncle); John Thorn, physician, (my cousin).

N. B.—John was originally a teamster, but stress of circumstances, a snobbish father-in-law who objected to a non-professional son-in-law—caused the ambitious teamster to add another M. D. to his name.

Those I have mentioned, beside several other distantly related kinsmen, were honest, hardworking men; but there wasn't a "moneyed" man among them unless it was Uncle Gideon, and for many years his financial worth was mere conjecture since he lived as frugally and spent as few dollars as his three poor nieces, one of whom,—myself, went barefooted every summer till she was nearly grown.

Yes, dear, I can refer to that period of my life with the utmost indifference since I am old and decrepit, and worth half a million! But time was, when I was "sonsy and sweet," like you my dear, and (unlike you) had no "tocher" except buoyant health, a fair face, and a wealth of riotous red curls—when I was morbidly sensitive about my faded frocks and plump bare feet. But now—ah, how gladly would I exchange my gold for the barefoot girl of long ago! Uncle Gideon Thorn was a strange old man. In addition to being eccentric in dress and manners he expressed the utmost contempt for women and children, and boldly asserted that this world would have remained an Eden if the first woman had choked to death on the for-

children of his own, neither had he any near men relatives, public opinion was divided as to whether the old man's reputed wealth would finally benefit the "Home for old Men," or his three needy nieces, namely: Olive Odell, Virginia Pitts, and myself, Leah Thorn. While we three sisters entertained a faint hope of being remembered in Uncle Gideon's will, we also believed that if he had anything to bequeath, the "Home" stood a far better chance of endowment than either or all of us.

Once in the long ago Uncle Gideon had wooed a fair maiden, but poverty prevented the consummation of their love-dream; so the young lover resolved to seek a fortune in distant climes then return and claim his bride. But disappointment awaited him. While her vows of eternal constancy still echoed in his ears and kept time with the clang, clang of his pick as he delved in the mines for golden treasure, she, ere he was six months away, married his rival.

Poor Uncle Gideon never recovered from the blow. When told of his fiancée's marriage he staggered as if smitten by an iron hand, and for weeks thereafter bidden fruit. Since the cynical old man had never been blessed with a wife and

moaned and tossed in the delirium of brain fever. When he recovered and was able to creep about the camp, never asking or answering a question, his comrades whispered to each other that intense suffering had weakened his brain as well as his body.

After many days spent in this aimless fashion, Uncle Gideon suddenly "came to himself." His former energy and ambition for gold returned, he toiled incessantly for the space of ten days, then disappeared from Camp Angeles as suddenly and mysteriously as if spirited away. While a few of Uncle Gideon's comrades believed that he had wandered away and perished while in a fit of mental weakness, others were of the opinion that he had found a nugget of fabulous worth, and fled the camp for fear of robbery. Many years later Uncle Gideon returned to his native town, and bought a dilapidated cottage, where he and Pompey, an old "free negro," who served him as cook and companion lived together.

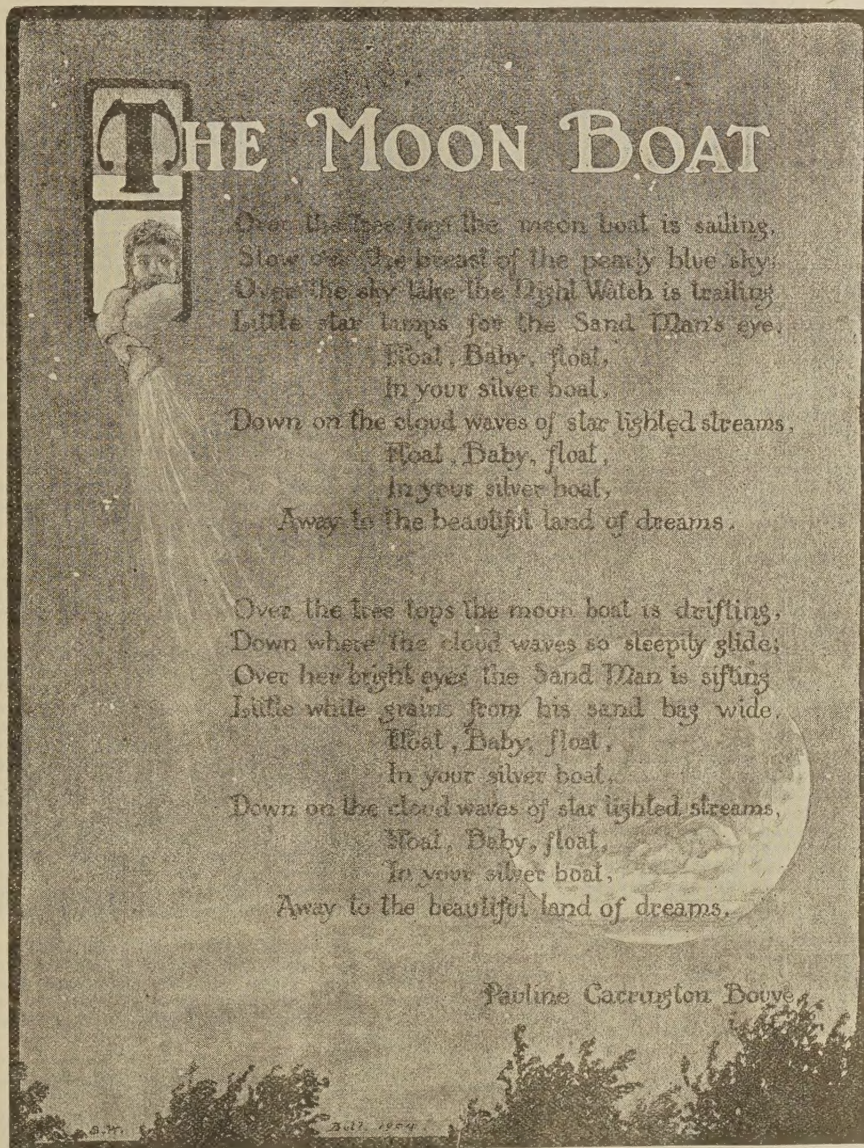
Now permit me to present to your notice the three nieces of our queer old bachelor uncle. Virginia Pitts, my eldest sister, was known as "the woman without nerves" because she never worried or fretted about any thing or person. When there was enough food in the house for dinner she was "thankful," when her children retired half-hungry she was "sorry," but not put out because of their empty stomachs.

When I was a child Virginia's possessions consisted of a double-log cabin on a ten-acre "patch" of poor land, a shiftless, rollicking husband; a family of beautiful children, mostly girls, and twins of crying size—and nothing else! My second sister, Olive; was a tiny old maid, and being a cripple since childhood she could not ply the shuttle and distaff like most women of her time, but she was an expert seamstress, and made a specialty of fine needlework and embroidery which added no little to her meagre income. If it be true that "The woman who takes into her heart the children of others is one of God's mothers," then sister Olive was worthy the title, for she took me, a fatherless and motherless babe, to her loving heart, and thereafter until her gentle spirit went out in the "great white

hush of eternity," uncomplainingly filled the place of the parents I never knew.

Our immediate household consisted of sister Olive, myself, and "Aunt Becky," the latter being a legacy from Dame Olive Odell to her namesake Olive Odell Thorn. I introduce Becky to your notice because of a very prominent part she played in my first (and last) appearance before the public in the character of a—There! I'm getting ahead of my story. Although Aunt Becky's complexion rivaled the tents of Kadar, and her features were grotesquely plain, nature had endowed her with a voice of rare strength and flexibility combined with bird-like clearness of expression. Becky's songs and the frequent visits of Virginia's sprightly children, relieved the monotony of our hum drum lives, and were far more enjoyable than Uncle Gideon's occasional calls which were noted for brevity and sameness of themes, "hard times"—interspersed with expressions of pity and disgust for the poverty, and prevalence of females among the Thorns. The old man generally concluded his remarks by saying, in a half-earnest manner—"Well, though you are

(Continued on page nineteen.)



"THE MOON BOAT" WON FIRST PRIZE IN OUR RECENT POETICAL CONTEST.

Pauline Carrington Douve

For the Children

MUDDIE

By
Marjorie R. Johnson

Winner of first prize in our Children's Story Contest.



YOU MUST keep very still, Rosine, and listen to me very at-ten-tive-ly, because, you know, you are my dearest dollie of all, my fa-vor-ite child. I have nobody but you and Linda and Bluebell to play with this afternoon, for Ethel has a bad cold and can't come, and I am very lonely. Auntie Bess had to go away for the whole long afternoon, and she told me to be "A little lady" while she was away. I'm a very bad 'lady' sometimes, Rosine; I talk too loud, and shout, and Auntie Bess tells me that I'm a regular tomboy, but I don't think I can help that, do you? (Your hair is so tangled, Rosine, and so thick; 'pon my word, I believe it grows!)

I wish my Muddie was here; my Muddie is so pretty—you never in all your life saw any one so pretty. She's your grandmamma, you know, because you are my child and I, hers; but she's not a bit like my grandmamma—she doesn't wear caps, and her hair isn't gray, and her face isn't wrinkled, and she doesn't wear black silk frocks, like grandmamma Calton. O no Rosine—my Muddie is very young, and she has blue eyes and golden hair. I'm not a bit like her. Muddie says I'm like my Papa that I've never, never seen because he died when I was a little baby, and that's why Muddie can't stay with her little girl but has to be away in New York an' Baltimore, an' an',—St. Louis, a n',—all the big cities. She has to get money to buy things for her chicken—that's me. There's a picture of her just over our heads; see, doesn't she look sweet in it, with her pretty neck and the little wings at her shoulders—not really, truly wings, but little silk tabs that look like them. You're a happy dollie, Rosine, to have such a pretty grandmamma, for—now, let me whisper this very low in your ear,—I don't think my grandmamma is pretty. That's an awful thing to say, and Auntie Bess would tell me I'm a naughty little girl to say it, but you won't mind, Rosine, and it's hard to be good when Ethel isn't here to play with me.

Auntie Bess is very good to me, but she's strict, too, and I have to mind my p's and q's. Last night I begged and begged to sit up half an hour longer and she would not consent, but shook her head all the time. At last I went out to the hall and took the round top off of the—the-new-el-post of the banisters—for it's quite loose, and then I put it on a cushion and carried it into the drawing-room and presented it to Auntie Bess on my bend-ed knees, just like a page presenting the crown to a queen. Auntie Bess and everybody in the drawing-room laughed, and I got my half hour's grace, as Uncle Charlie said.

Another time when I wanted Uncle Charlie to take me to a little play and he wouldn't, 'cause he was tired, I just knelt down on the sidewalk in front of the house, when he was sitting on the veranda, and put up my hands like little Samuel in the picture, and looked as if I was praying, and Uncle Charlie laughed but still he wouldn't take me. That was because he's a man, and men are not so easily moved as women are; Auntie Bess would have re-len-ted, that's the word. It's time you were learning some long words, Rosine, for you're only two years younger than me, and I'm seven. They say I learn long words because I'm so much with grown-up people. I've never been much with other children, and I've travelled about a good deal with Muddie and nurse, only Muddie says I'm getting too old to do that now, and she wants to keep me away from the shadow of the stage. That's what she wrote to Auntie Bess, and that's what Auntie is trying to do, but sometimes I hear people talking about me, and they say, "she'll be an actress—that child."

I wish Muddie would take me about with her as she used to do. Once, a very long time ago, when I was only five, I was behind the scenes in the theatre where Muddie was, and when the curtain dropped I ran on to the stage and jumped into her lap; and then there was an encore and the curtain went up, and there I was in Muddie's lap, and the people clapped louder than ever, when they saw. I like that, Rosine, but Auntie Bess says I oughtn't to, and she's always hoping that Muddie will be able to give up the stage and come home to live with her and me.

You didn't see the box that came yesterday from Mud. It had the loveliest things in it, and best of all a white Persian lamb coat with hood and leggings to match. I wore it this morning when Aunt Bess and I went out for a sleigh drive, and old Dennis called me a little white lamb. It's so warm and cozy—my face just peeps out of the hood. Muddie never could refuse me anything, just as I can't refuse you anything, only you don't ask for so many things as I do; when Muddie's here she doesn't get much peace with me, Auntie Bess says. Perhaps it's just as well for her that she has to be away so much, only she doesn't think so—dear old Mud.

Once she went to see "Little Lord Fauntleroy," and the boy that took the part looked so much like me that Muddie just cried all the time, and Elsie, her maid, had to bring her out and take her back to the hotel. Her nerves were over-worked, and she does miss me very much.

It's many weeks since I last talked with you, you dear thing—a real good talk, I mean, and now I'm only doing it because I'm mad with Ethel. I went over to play with her today, and she wasn't very polite. Aunt Bess had let me wear my dancing slippers, because my afternoon shoes hurt me a little, they are so new, and Ethel had on her school shoes with spring heels, and I think—I really think, Rosine, that she was a little bit jealous because my feet looked so smart. She said she thought it looked common to be wearing one's dancing slippers on just any afternoon, and I said, "Well, Ethel, if you think I'm common you'd better not play with me;" and she said, "I didn't say you were common I—only said the slippers made you look so"—and that made it worse. So then I said, quite politely; "I think I must go home now. Good-bye Ethel." And she just coldly said good-

bye, and didn't even come to the gate with me and I don't think that was polite, do you? But then you never say anything about anybody, you dear old good thing. Muddie says a lady never talks about anybody else, unless she says something nice about them, and so does Auntie Bess. Still, I think—

Yesterday Uncle Charlie took me to his hotel to dine with him, and some other young men came into his room after dinner and they all smoked. Of course they asked me first if I objected to smoking, and I said no, it was not disagreeable to me. Then they listened to me very attentively while I told them about the sermon I had heard in church in the morning. They laughed at nearly everything I said, and when I got home Auntie Bess said one would think I had been smoking myself; and she said she wouldn't let me go to dinner with Uncle Charlie again if he let people smoke in his room while I was there—she said it was bad for my health.

A dreadful thing has happened, Rosine—my Muddie is dead. I'm never, never going to talk about it to any one but you and Auntie Bess, but I'm very, very sorry, and there is a heavy lump right here, just here in my neck. That's why I wear this black frock and sash, and that's why Auntie Bess wears a black frock too.

It was this way, Rosine. One day I was having such a nice time out playing in the yard, and everybody was very kind and good, and I had a happy feeling in my heart. All at once Ida—that's the parlor-maid, you know—came out and said, "Miss Lynette, Miss Wyndham wants you,"—so I came in and found Auntie Bess in the drawing-room with a yellow paper in her hand and tears in her eyes. "My darling child" she called me and she took me in her arms "you must come with me on a long journey; Muddie is ill." I wasn't frightened because Muddie was ill; once before she was ill when I was with her in New York and it was fun. I sat on her bed and talked to her and she laughed ever so much, and said she liked to be ill when she had her chicken with her. So I told Auntie Bess that Muddie would soon be well when she saw me and I liked to go on the cars—but still Auntie looked so sad and tried hard to keep me from knowing that she was crying, but she couldn't.

It took us two days and two nights to get where Muddie was, and when we got there a horrid nurse came to the door and said we couldn't see her, because she was too weak,—and so Auntie and I had to go into another room and wait till the horrid nurse would say we might see Muddie. Then a long time after they sent for Auntie Bess and left me alone with nothing to do but look out of the window on the great, ugly, narrow street away, way down, and it was raining, too, and I never felt so bad in all my life. I was so angry at the nurse—she didn't know that I always sat on the bed when Muddie was ill and put my hands on her forehead, and made her headache well.

When it was getting nearly dark Auntie Bess came back, and she was very quiet. She took me in her arms, and tried to rock me to sleep, but I wasn't a bit sleepy, and only wanted to know why I couldn't go in to see Muddie, and Auntie didn't speak for a good while. Then she just whispered, so she could say it without crying,—"I'm all the Mother you have now, Lynette, my darling baby girl," and then she cried all over my hair,—and I felt bad, so bad; but I didn't cry. All I wanted was to get home to you, Rosine,—because you are my child, you know.

They wanted me to go into the room and look at Muddie the next day, but I wouldn't, and Auntie Bess would not urge me. "Let her remember her mother in all her health and beauty,"—that's what I heard her say to Uncle Charlie; for Uncle Charlie was there then.

How would you feel, Rosine, if there wasn't any Me?—That's the way I feel, because there isn't any Muddie any more.

I've a lovely thing to tell you today, Rosine,—I'm going to have a kind of sister to live with me always and always,—till I'm grown up.

Auntie Bess says I'm getting too old for my years,—she thinks when I'm only seven I ought to be almost a baby, though I don't think so myself; and she says I'm too much with grown up people, and that I don't have as much fun as a child should have; and she never tells me I shout and romp too much, now; and she never tells me I'm not ladylike, and before she was always telling me that.

And so, a dear little girl that is only eight, is coming all the way from England to live with Auntie Bess and me, and be my almost sister. Her name is Gwynnethlyn Rosse, but Auntie says I may call her Gwyn. I know she's pretty, and that she has pretty frocks and hats, for Auntie Bess has a great many pictures of her, and she has a different frock on in all of them, and in some she has a hat on—such pretty ones.

I wonder if she'll like me. I know I shall like her; and she's going to say Auntie Bess, instead of Miss Wyndham, though she isn't any relation at all. She's just a little orphan girl, like me, and her Father was Lord Something or other—Auntie Bess knows his name, but I can't remember, and you don't care, Rosine. At any rate, Gwyn's just as good as if her Father had been—like mine—only just a gentleman.

And I'm so glad, so glad. I just feel like jumping up and down and shouting as loud as I can; and Auntie Bess says that I'm looking more like myself than I've looked for a long time.

I must tell you that last night at dinner, I fainted, and had to be carried upstairs and laid on my little bed. Ever since that time when Auntie Bess and I went to—to the place where Muddie was—Auntie has let me take dinner with her in the big dining-room. She says she doesn't want me to be alone at any of my meals, so I'm promoted. Do you know what promoted is, Rosine? It's doing things that big people do, when you ought to be doing things that children do, like taking your meals in the nursery. But when Gwyn comes, I suppose we'll have nursery teas again, and we'll play and laugh and sing; and I'll take her all over the house,—and we'll rummage the attic and dress up, and play ladies,—and—and O, what fun it will be! I can hardly wait till day after tomorrow, for it's then that Gwyn is coming.

O Rosine! don't you wish you were a little girl, like me, and not just only a French doll?

AN EARLY VISITOR.

"When early this morning I wakened.
I opened my window quite wide,
And what do you think, dearest Mother?
A sweet little bird flew inside!

"I caught it at last very gently,
'Tis here in my hand, as you see;
I'll let it fly back through the window—
Perhaps it is frightened of me."

THE WORLD'S FAIR

THE WORLD'S FAIR at St. Louis is held in commemoration of the purchase of the Louisiana Territory from France by the United States. This vast territory was greater in extent and in natural resources than that of the original thirteen states, and its possession insured to the United States the perpetual control of the Mississippi river, the greatest natural waterway on the face of the earth. This vast tract of land lies between the Mississippi river and the crest of the Rocky Mountains, and covers over one million square miles, an area greater than France, England, Scotland, Ireland, Wales, The Netherlands, Belgium, Italy and Spain combined.

The purchase was made by Robert R. Livingston, United States Minister to France, and James Monroe, afterwards president of the United States, and author of the "Monroe Doctrine." The purchase was made while Thomas Jefferson was president, and he is thus in the popular mind given principal credit for it. Impartial history would seem to indicate that though Jefferson appointed the above named men as commissioners and approved the act consummating the purchase, that he was not primarily greatly in favor of it and that to Mr. Livingston is due the principal credit for urging the measure and bringing it to a successful issue.

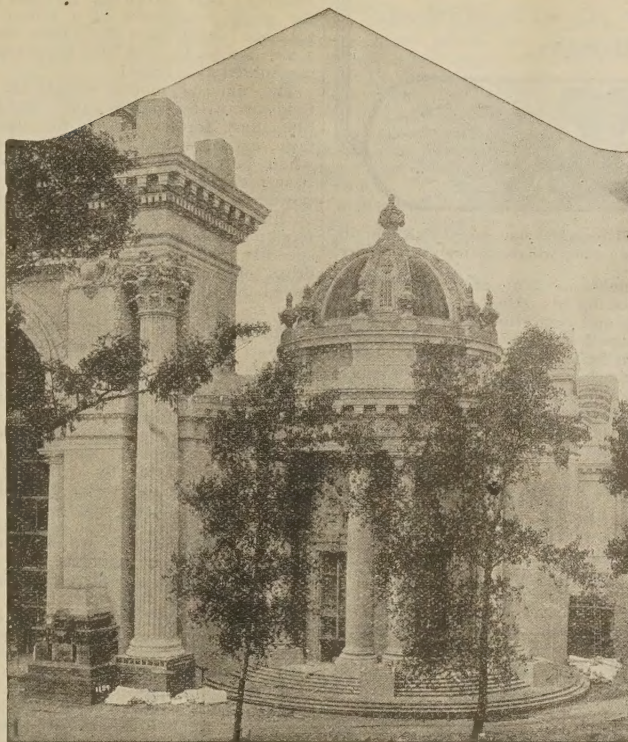
The original idea was to purchase the island of New Orleans, but when Napoleon offered to sell the entire Louisiana Territory for fifteen million dollars, the representatives of the United States did not hesitate to accept the offer. The treaty was signed April 30, 1803, at Paris, and the formal transfer was made later on. Napoleon doubtless regarded this vast tract of land as practically worthless. Add to this the fact that it might embarrass him to defend it, and that his army lacked proper equipment, which the money would furnish, and we have his reasons for parting with so vast a territory for so small a price. However, it must be remembered that the sum named seemed much larger at that time than it would be regarded today.

Many ridiculed the idea of making such a purchase, many questioned the wisdom of it, and many openly opposed it, but the fact is now apparent that without this territory the present greatness of the United States would have been impossible. The extent of our country was more than doubled, and the way paved for the easy acquisition of other large tracts later on, which at last gave the United States an unbroken expanse from ocean to ocean, and enabled her to stand forth as the greatest nation on the globe.

As to size, the Louisiana Purchase Exposition is by far the largest the world has ever seen. In 1893 Chicago established a new record with her World's Columbian Exposition, covering an area of 633 acres, but the St. Louis Exposition covers 1,240 acres, being nearly twice the size of the Chicago grounds.

It will help our readers to appreciate the colossal size of the Louisiana Purchase Exposition if it is noted that it will cover more ground than the Columbian Exposition, the last Paris Exposition, and the Pan American combined. Of this 1240 acres, 666 acres belonged to Forest Park, and the remainder was largely farming land. Six miles of fence was required to enclose it. A vast amount of labor and expense was required to get the grounds into proper shape. Hills forty feet high were leveled down and used to fill up valleys. The tortuous and ragged-edged channel where a stream had meandered for ages, was straightened and transformed into an attractive waterway. Large numbers of forest trees were hewn down, or transplanted along the new streets and avenues within the Exposition grounds. Acres and acres of rough and uncultivated land were smoothed into shape and seeded down into attractive lawns, while thousands of shrubs and flowering bushes have been planted by landscape artists. Several hundred acres are devoted to agricultural, arboricultural, horticultural and mineralogical exhibits, outside the regular exhibit palaces.

The plan of the central portion of the Exposition grounds suggests the lines of a fan. From a central point on the summit of a hill stands Festival Hall, which easily surpasses anything ever attempted in a public way before. This forms the center of a semi-circular Colonnade of the States, from which radiate the avenues on the plane below, which are bordered by the immense exhibits palaces. The face of this hill is in terraces, and over these fall three series of cascades from



Corner of Palace of Liberal Arts.

The Colonnade of the States on the crest of the hill is fifty-two feet high, and more than a quarter of a mile in length. Here are placed sculptural groups symbolical of the twelve states and two territories that have been formed from the land acquired by the Louisiana Purchase. The Festival Hall in the center is one of the most imposing of the exposition structures. It is two hundred feet high, surmounted by a dome, and overlooks the entire Exposition grounds. At the ends of the Colonnade of States are two circular restaurants, each over one hundred feet high and similar in a smaller way to the great central dome.

In the rear of Festival Hall is located the Art Palace, which is without doubt the largest and finest ever attempted at an exposition. It is 850 feet long and 450 feet deep.

The Palace of Liberal Arts, although an entirely separate building in some respects is closely allied to the Palace of Art, in that many branches of art are represented here, as photography, posters, costumes, jewelry, musical instruments, etc.

The Palace of Liberal Arts is 750 feet long, and 525 wide, and covers about nine acres of land. Its cost is \$500,000. Great care has been taken to install as few interior columns as is consistent with absolute safety, and to provide ample light, so that every exhibit will be seen at the best advantage.

Upon entering the grounds at the Main entrance — Lyndell — one faces the Grand Basin, at the farther end of which are the terraces and cascades, and upon either side of which are located the exhibit palaces devoted to Manufactures and Varied Industries. These are sections of one great department, the largest in fact, in general classification, comprising thirty-four extensive groups, including stationery, cutlery, silver and goldsmith's

wares, iron, bronze, furniture, carpets, wall papers, watches, clocks, leather work, hardware, glass, cloth, fabrics, embroidery, laces, furs, heating and ventilating devices, and everything that one finds in the great emporiums of trade. Many of the machines used in these manufactures will be shown in operation.

The first building at the left is the Palace of Manufactures. It has a frontage of 1,200 feet, and a depth of 525 feet; covers fourteen acres, and cost \$720,000.

The first and corresponding building at the right is the palace of Varied Industries, which is identical in dimensions with the Palace of Manufactures, and also covers about fourteen acres.

The second building at the left is the Palace of Education and Social Economy, which is 525 by 750 feet and cost about \$320,000. The second building at the right is the Palace of Electricity, 525 by 750 feet and cost about \$400,000.

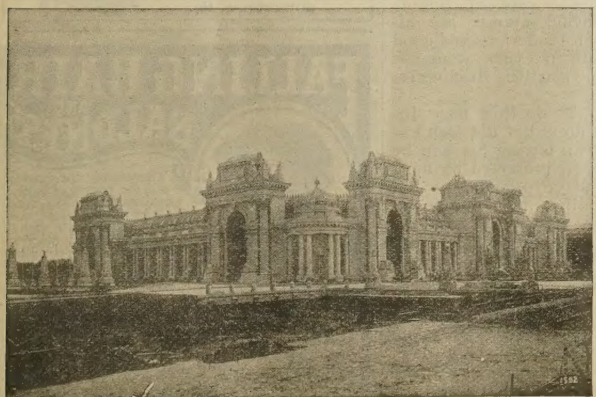
Machinery Hall, or the Palace of Machinery, as it is properly named, is 1,000 by 525 feet, covers ten acres, has two towers 265 feet tall, and cost \$600,000. In one corner of this building will be located the enormous power-plant of the Exposition—the largest ever constructed.

The Palace of Horticulture is 800 feet by 400, and contain a great conservatory of exotics, decorative and useful plants, including those of greatest size. The main central section of the building is devoted to fruits. The outdoor space surrounding this building, some fifty acres, is devoted to displays of roses, shrubs, evergreens, etc. There is a rose garden covering six acres in which will be 50,000 roses in bloom. A floral clock with a dial 100 feet in diameter, with figures in flowers and hands fifty feet long, will give correct time. At night it will be illuminated by 1,000 incandescent lamps.

Special interest attaches to the Agricultural Palace, as being the largest on the ground, and in fact, the largest building ever constructed. This palace is 1,600 feet long and 500 feet wide and covers twenty acres. It cost about \$529,000. It requires a walk of three-fourths of a mile to go around the building. It is ten times as large as Madison Square Garden in New York. By actual measurement there is more floor space in this building than there was in all the buildings of the Pan-American. Over ten million feet of lumber were used in the construction of the building, and this required 600 fully-loaded cars, making twenty full trains, to transport to the grounds. A tract covering nearly two and one-half square miles of southern forest was denuded to provide this vast quantity of lumber for this one building.

As the Palace of Agriculture represents only about one-twentieth of the total building construction on the ground, it will be seen that over fifty square miles of forest were cut to provide the lumber for the Exposition buildings.

Five cars were required to haul the nails used in the Palace of Agriculture, and in each car were 450 kegs of one hundred pounds each, making 112½ tons of nails. In the form of a cable they would reach from Kansas City to New York.



Palace of Liberal Arts.



Palace of Electricity.

THE MOTHER'S MEETING

"God could not be everywhere—so He made Mothers."

By Victoria Wellman.



NOTE—Letters requesting private reply should be addressed to Victoria Wellman, care of Vick's Family Magazine, Rochester, N. Y. All letters accompanied by a stamp will receive reply in due order.

Mater Dolorosa.

Because of one dear infant head
With golden hair,
To me all little heads
A halo wear.
Because of two wide, earnest eyes
Of heavenly blue,
Which look, those yearning eyes,
My sad soul through.
All eyes now fill mine own with tears
Whate'er their hue.
Because of little death-marked lips,
Which once did call
My name in plaintive tones,
No voices fall
Upon my ear in vain appeal
From children small.
Two little hands held in my own,
Long, long ago;
Now cause me, as I wander through
This world of woe,
To clasp each baby hand stretched out
In fear of foe;
The lowest cannot plead in vain—
I loved him so!

Selected.

Busy Mothers.

Mrs. Go-easy never rose till she simply had to because of her husband's breakfast, and having made no preparations this was a most uninviting meal served with yawns by the wife yet in her wrapper, her hair flying, and often to the shrill music of a crying baby dangling on one arm. Mr. Go-easy seldom enjoyed his breakfast; the coffee was never twice alike and also never good. The other children straggled down, half-dressed, snarling, unwashed. There being few cups or dishes there was often a fight for these. The father scolded vigorously at every one. After dealing out "grub" the mother hastened her work. She must tend to buttermaking, feeding the poultry, pigs, and calves, and keep her kitchen garden. Through the open doors hosts of flies buzzed in and made explorations into soft butter and died valiantly in cups of milk, or rested wearily on the bread. Not a few were entertaining the screaming baby. On washdays these daily events were intensified by whippings.

The common property hair brush and comb, both sadly in need of cleansing, were lightly applied to the tousled locks out of respect for "teacher," and after some struggles a fairly respectable group strolled off early to school. Little Jessie, though but three, went with them "cause she is such a trouble"—in fact Mrs. Go-easy had always managed to get her children early to school for this reason. The smiles of these little folks displayed black or broken teeth far from attractive and they never carried handkerchiefs.

At school they were troublesome, impertinent, poor students. When they returned home at night after only a lunch, at noon, of hunks of bread and butter with possibly an apple, they were eager for supper and ate voraciously, much like bear cubs. They were sternly forbidden to "bother" or "get in the way" and unless very severe weather were glad to be outdoors until at last half in the dark, without a kiss or kind word, they stumbled off to unaired beds which on the average were made once in a week. Dust and litter were everywhere and soiled clothes and old shoes mused the room and loaded the chairs.

These children grew up "somehow or other" until at the age to observe, when each about fourteen year old child left home partially or entirely. One ran away, but getting into good surroundings became the flower of the family. One

being unable to bear much temptation was lured by his street arab chums into drinking and cigarette habits, and next into a small burglary which sent him to a Reform School. One girl, the oldest, for a time blossomed into desire for better things under the care of her Sunday School teacher and made a pathetic attempt to improve her home and herself; but early habits were against her, she had no power or money to execute her wishes and drudgery weakened her desire in a home full of bitterness. Her pretty face grew morose; in time "someone" admired her and she, poor child, knowing too little of life's real meaning because her mother had never "bothered" to teach her, or caress her, or give her pretty gifts, found great joy in the professed love, admiration and devotion given her. She bloomed out into beauty for a little space. One day she sobbed a confession to her scornful mother, and was turned out doors by her ugly father who thought it no disgrace to be drunk or profane or to use smutty language, but would not forgive his child's fault—or ignorance.

In old age Mrs. Go-easy fretted and whined her days away in a Poorhouse where she had been put when her boy, a saloonkeeper, refused her support. "To think, how I and Jim slaved day and night for our younguns! We saved every cent and never had no nice times, or fine clothes, nor pretty things in the house and the very plainest food. We saved till we owned lots o' land; but them plagues o' children never one o' them helped us to keep any of it all nor stayed to home to help us work."

"Lots of land!" and no home all those years. Too "busy" to live, in truth was Mrs. Go-easy, too busy seeking for dollars to ever learn how sweet is love and the services which like incense sweeten home.

"I love you," drives the frowns away;
"I love you," dries the tears,
"I love you," are the words to say
To brighten all the years.
"I love you," brings the sunny smile,
"I love you," cheers the heart;
"I love you," makes life worth the while,
And bids all gloom depart.

Young Mothers.

During the heated period the care of even the healthiest baby becomes more of a responsibility, requires common sense and no reliance on "they say." Particular attention should be given to following points: dress, diet, over-heating due any cause, good air and plenty of it. During summer, at least, let baby be near to nature's heart. The mother's health therefore is the first consideration, for just as the milk of a thoroughbred Jersey cow would deteriorate under bad conditions, so does the sweet, divinely given human milk become lessened in value or utterly spoiled. Therefore, if a mother desires to be all in all to her nursing babe let her jealously devote herself, avoiding in her own diet, exercise, work or habits any possible causes which may seriously influence the child.

Many varieties of drains upon the quality of the milk may exist, being such as physical or sexual excesses, moral burdens, mental strain, violent temper, etc.; if, in addition a foolish mother is selfish or ignorant in her diet, a baby maybe better off on the bottle—but alas! what a loss. A shiver of aversion creeps over me whenever I chance upon a woman who openly declares she will not nurse her baby—"it's so much trouble and bother. A woman is tied down and she can't wear pretty dresses, etc." On a par with such is she who

"dopes" her innocent little child with paregoric, soothing syrup, cordials, etc., on any possible occasion—"so as I can work." Again alas! This boon, this blessing, this crowning gift and power for good considered as a cross! This pleasure (worth even sharp pain such as some heroically bear "for baby's sake") considered a sacrifice!

The nursing mother should eat bland foods, omitting such as cause flatulence. She must forego onions for their bad taste, eat salads and fruit with care, and when beginning any food of which she is suspicious or uncertain take a dose of powdered rhubarb to correct ill effects. In time a baby grows used to certain foods: for instance salads with vinegar speedily produce colic but with a few drops of lemon juice gradually introduced, no ill effects appear. Some children are pre-disposed to gastric disorders and watermelon, cherries, pears, etc., cause a mild but troublesome form of cholera infantum proving the need of the mother's self-denial. Corn, beans, and cabbage are the worst enemies to nursing babies' peace.

A delicate mother may nurse her babe (if not over-worked) and retain her health and flesh also by drinking each morning a pint of warm milk slowly. Honey, cocoa, grape juice are of equal importance. Tea, coffee, and malt or more alcoholic drinks are rank foolishness. Even cocoa to excess is quite unnecessary for it is quality not quantity in milk which aids or injures a babe. Cereals and gruels, entire wheat bread, bananas, oranges, apples, prunes, peanut-butter, cream, etc., should be liberally used. The secondary effects of all eaten or drunk come upon baby, and the laxative effects of prune juice are desirable.

Nursing women should bathe daily, a sponge bath with a foot soak being excellent, should change clothing, especially hose, often, use care to regulate daily bowel action, bathe the bust before each nursing—in short keep sweetly clean "for baby's sake." A babe well nursed six months, if then carefully weaned to a proper diet, is likely to prove by the weekly weight a steady gain.

Always weigh baby each week for at least one year. The mother whose sad loss is that hers must be a "bottle baby" needs special help which we will later discuss; but we feel the need of emphasizing some strong points for bottle fed babies as follows:—

Prepare the food twice daily. Keep it in sealed cans or bottles in a cool place. Use milk above suspicion. Have baby's saucers new and shining, devoted to this one use.

Never keep food once offered and refused.

Never allow baby to go to sleep with a bottle or to suck on an empty one. Often he might go asleep without emptying his bottle and on awakening resume sucking. Milk kept one hour in a glass bottle in warm weather near a hot little body is unfit for use and has, ere now, caused startling and sudden death. Empty bottle each time and fill with borax water. Remove the nipple, turn inside out, brush it often ere you lay it in a cup of borax water.

Keep two bottles on hand and renew the nipples fortnightly, or else be wary over their daily care.

Watch the baby's bowel action with zealous care. Alter his food in accordance.

The general points for care of infants in their first and second summer are altogether those which tenderness and good sense should indicate to every woman—alas! there are some startling discoveries made at times.

Keep baby cool. To do this may involve a change in dress but not rash exposure. It does mean letting his nap be taken in a cool spot, protected by mosquito net. You may, on muggy, hot days, hasten the cooling of a room by damp cloths hung before the windows and doors. Canvas or tent cloth laid under the sheet will soon create a cool bed. Do not lay baby's head on feathers but make thin pillows of hair and excelsior.

Give Baby Water. This is a good rule working two ways, i.e., give water, cool not iced, internally four times a day; give hot water when colic or illness arises; give sponge baths twice daily. A night of close oppressiveness can be en-

(Continued on page nine.)

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N. HUDSON MOORE	Nature Department
VICTORIA WELLMAN	Mother's Meeting
H. E. VAN DEMAN	Fruit Department
JOHN ELLIOTT MORSE	Garden Department
VINCENT M. COUCH	Poultry Department

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joyed by baby after you have given him a salt rub or sponging with salt water and alcohol, followed by hand rubbing. An oil rub after a saleratus water tubbing allays prickly heat.

Keep Baby Clean. This refers to his little mouth which should be washed with borax water, using a swab of cotton on the forefinger, and to his diapers and bedding. Chafing causes much "crossness." How cruel to blame babies for complaining instead of removing the cause. No wonder some babies are "cross." Diapers not boiled often or washed with poor soap (Ivory soap is the best for diapers) are the cause of that persistent interigo which locates on a child and is the cause of nameless misery. Chafed babies require clean dry diapers—such can be used once only and then must be washed with hot water—even more than healing powders, salves or lotions. Tallow is a good cure.

Don't feed the baby "little tastes." Corporeal suasion should be used on everyone who breaks this rule.

By due attention to above, and in case of a nursing babe we may insist on a mother who is never "too tired," a baby can be brought through victoriously despite all the "teething" etc., so dreaded by mothers and fathers.

"Our crosses are hewn from different trees,
But we all must have our Calvaries;
We may climb the height from a different side
But we each go up to be crucified;
As we scale the steep, another may share
The dreadful load that our shoulders bear;
But the costliest sorrow is all our own—
For on the summit we bleed alone."

Selected.

Editorial.

If there is any place where "all work and no play makes Jack a dull boy" more than another, it is in the country. The town boy sees various sights of interest as he goes about his work, and in the evening can gather with other boys for a little fun; but when the day's work is done on the farm, the cows milked, the pigs fed and the horses turned loose, the boy is pretty apt to lie on the grass a while, then bathe his tired, parched feet in the brook, and "go to bed with the chickens!" Well do I remember those long hot days whose supper bell, it seemed, would never ring; those rows of corn which seemed to have no end; those long, dreary weeks when it seemed that Saturday night would never come. The brightest days of farm life to me, were the dark, rainy ones, when with fish-poles over our shoulders and boxes of bait in our baskets, half a dozen of us set out for lake or stream. There were no lagging steps on those trips, we were off with a shout and a bound and if we were tired on our return our weariness was of a different sort, as could be seen by our beaming faces. Life seemed worth living for many days after such a trip, and somehow the days in the field did not drag their weary hours out quite so much, the corn rows did not seem quite so long, the noonday sun quite so hot after a day with the boys at lake or stream. Give the boys a day off occasionally; it will make life brighter and happier for them, and may be the means of keeping them on the farm, where nine out of ten of them are better off than in town or city.

I would not in any way belittle country life for boys. I much prefer to sing its praises. The boy who is brought up on a farm has an heritage in a healthy body, strong nerves and sound, moral principles which is of more value in the battle of life than money bags or social prestige. The farm work which seems such a grind brings with it compensating joys and experiences which can be found nowhere else on earth. Never have I heard the birds singing so rapturously sweet as in the old orchard away back there in the hills at five A. M., where, as a barefoot boy I went to call the cows; never have sounds of industry brought such harmony and contentment as the buzz of the bees in the clover on the old farm; never was my heart lighter or my whistled tunes more exuberant with joy than when I was driving the cows down the long lane and across the brook to pasture; never did the cool shade seem more refreshing than when I lay under the old apple tree for half an hour after dinner for the accustomed "noonin"; never has water tasted so sweet and refreshing as when I lay on my face and drank long and deep from the bubbling spring under the old maple tree on the hillside, and now as I sit at my desk and listen to the noise of the streets, the discordant shrieks of whistles and the ceaseless hum of industry, or as I pass along the crowded streets amid the press of the busy crowd, a longing comes over me to be again near to mother earth, to hear the birds sing again in the old orchard; to hear the bees hum in the clover and to drink again from the spring under the old maple tree on the hillside; but those things cannot be; to be sure the orchard and the birds, the clover and the bees, the spring and the old maple tree are there, but he who has grown to man's estate can never be a boy again and the sounds and sensations which filled his heart with rapture in youth, now have a strange, far away sound. Give the boys a chance; let them have a good time; teach them to love the country by pointing out its beauties and advantages and in after years they will rejoice, as I do with all my heart, that they spent their boyhood on the farm, and when cares increase and the stress of life is full upon them, they will live over those happy days in memory and sing with Whittier, as I often delight in doing:

"Blessings on thee, little man,
Barefoot boy with cheeks of tan;
With thy 'turned up pantaloon,
And thy merry whistled tunes,
From my heart I give thee joy,
I was once a barefoot boy."

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Home Dressmaking

Hints by
MAY MANTON



Pattern Nos. Waist 4700, Skirt 4697

A STYLISH SHIRT WAIST GOWN

To the demand for new shirt waist suits there seems literally no end. This one shows quite novel sleeves and is peculiarly well adapted to the embroidery that is so fashionable although it can be trimmed in many ways. The original, from which the drawing was made is of white butcher's linen and is embroidered in French style with a raised design, the skirt being untrimmed. The waist is made with fronts and back; the fronts are tucked at the shoulders and again at each side of the centre plait, so giving a double box plait effect, and the back to give tapering

lines. The skirt is cut in twelve gores, there being a seam at the centre front, and is laid in fan plaits at each seam. The closing is made invisibly at the back above the plaits, the placket being finished with a deep under-lap. When liked the front and side gores can be cut to form a dip at the waist line, the belt omitted and the edge under-faced or bound. The quantity of material required for the medium size is, for waist 4 yards 21, 3 $\frac{1}{2}$ yards 27 or 2 $\frac{1}{2}$ yards 44 inches wide; for skirt 16 $\frac{3}{4}$ yards 21 or 27 or 8 $\frac{1}{4}$ yards 44 inches wide when material has figure or nap; 12 yards 27 or 6 $\frac{1}{2}$ yards 44 inches wide when material has neither figure nor nap. The waist pattern 4700 is cut in sizes for a 32, 34, 36, 38 and 40 inch bust measure. The skirt pattern 4697 is cut in sizes for a 22, 24, 26, 28 and 30 inch waist measure.

FASHIONABLE AFTERNOON GOWNS

Afternoon gowns of foulard, messaline and similar thin silks are much in vogue for summer wear and are always handsome. The model to the left is made of messaline satin in the shade of green known as antique and is combined with cream colored lace. The waist is an exceedingly handsome one and is closed invisibly at the left shoulder and front. The skirt is made in three portions, the front gore and circular sides with the gathered flounce which is joined to the lower edge. The sherrings at the upper edge are held by a fitted foundation. The quantity of material required for the medium size is, for waist 3 $\frac{1}{2}$ yards 21, 3 yards 27 or 2 yards 44 inches wide, with 2 $\frac{1}{2}$ yards of all-over lace; for skirt 9 $\frac{1}{2}$ yards 21, 8 yards 27 or 5 yards 44 inches wide. The waist pattern 4688 is cut in sizes for a 32, 34, 36, 38 and 40 inch bust measure. The skirt pattern 4682 is cut in sizes for a 22, 24, 26, 28 and 30 inch waist measure.



Pattern Nos. Waist 4688, Skirt 4682

Pattern Nos. Waist 4684, Skirt 4687

The gown to the right is made of foulard in shades of champagne and tan with a yoke and cuffs of ecru lace. The waist is one of the most fashionable of the season with a deep yoke that falls well over the shoulders and is closed invisibly at the back. The skirt is cut in seven gores, there being a box plait at the back edge of each gore with tucks between that are stitched to yoke depth.

The quantity of material required for the medium size is, for waist 4 yards 21, 3 yards 27 or 2 yards 44 inches wide, with $\frac{1}{2}$ yard of silk for belt and 1 $\frac{3}{4}$ yards of all-over lace; for skirt 9 $\frac{3}{4}$ yards 21, 9 $\frac{1}{4}$ yards 27 or 5 $\frac{1}{2}$ yards 44 inches wide, with 5 $\frac{1}{4}$ yards of lace applique. The waist pattern 4684 is cut in sizes for a 32, 34, 36, 38 and 40 inch bust measure. The skirt pattern 4787 is cut in sizes for a 22, 24, 26, 28 and 30 inch waist measure.



Pattern No. 4680

FANCY BLOUSE 4680

To be Tucked, Gathered or Accordion Plaited.

Yokes shaped to form points at front and back and to extend well over the sleeves, are among the latest and smartest shown. This one is made of sheer white lawn with yoke and trimming of lace and is unlined, but the model suits soft silks and wools equally well and the fitted lining can be used whenever desirable. Both waist and sleeves are tucked at the upper edge but can be gathered or accordion plaited with equal success. The long shoulder line is exceedingly graceful and the entire outline of the yoke an exceptionally good one. The quantity of material required for the medium size is 3 $\frac{3}{4}$ yards, 21, 3 $\frac{1}{4}$ yards 27 or 2 yards 44 inches wide when tucked or gathered, 5 $\frac{1}{4}$ yards 21, 4 $\frac{1}{2}$ yards 27 or 2 $\frac{3}{4}$ yards 44 inches wide when accordion plaited, with 1 $\frac{1}{2}$ yard of all-over tucking for yoke and sleeves and $\frac{3}{4}$ yards of silk for belt. The pattern 4680 is cut in sizes for a 32, 34, 36, 38 and 40 inch bust measure.

BLOUSE OR SHIRT WAIST 4711

Shirt waists long ago came to be numbered among the must-haves. Whatever else the wardrobe may lack they are certain to be found. This season they are, if possible, more tempting than ever before and are shown in most alluring variety. The model shown is new and smart



Pattern No. 4711

and is suited alike to washable and to silk and wool waistings, but in the case of the original is made of ecru batiste piped with brown and trimmed with little pearl buttons. The quantity of material required for the medium size is 5 $\frac{1}{4}$ yards 21, 4 $\frac{3}{4}$ yards 27 or 2 $\frac{3}{4}$ yards 44 inches wide. The pattern 4711 is cut in sizes for a 32, 34, 36, 38 and 40 inch bust measure.



Pattern No. 4698

GIRL'S DRESS 4698

To be Made With Low or High Neck, Elbow or Long Sleeves

Bertha waists always are becoming to little girls. This pretty frock shows one combined with a simple gathered skirt and is charmingly graceful at the same time that it is eminently childish. The model is made low at the neck with elbow sleeves, but the sleeves can be made long and neck high whenever they are so desired and all the many materials in vogue for little girl's frocks are appropriate, while trimming can be banding of any sort, frills or almost anything that may be liked. The quantity of material required for the medium size is 6 $\frac{1}{2}$ yards 21, 5 $\frac{1}{4}$ yards 27 or 3 $\frac{3}{4}$ yards 44 inches wide, with 7 yards of banding and $\frac{1}{2}$ yards 18 inches wide for yoke and cuffs when high neck and long sleeves are used. The pattern 4698 is cut in sizes for girls of 6, 8, 10 and twelve years of age.

Special Offer.

For a short time we will mail these patterns to any address for only 10 cents each or three for 25 cents. The regular retail prices range from 25 to 40 cents. The patterns are all of the latest New York modes and are unequalled for style, accuracy of fit, simplicity and economy. With each is given full descriptions and directions—quantity of material required, the number and names of the different pieces in the pattern, with a picture of the garment to go by. We can also furnish any of the patterns illustrated in the last five issues of Vick's Family Magazine. VICK PUBLISHING CO., ROCHESTER, N. Y.

A Song For Our Flag.

A bit of color against the blue;
Hues of the morning; blue for true,
And red for the kindling light of flame.
And white for a nation's stainless fame.
Oh! fling it forth to the winds afar.
With hope in its every shining star;
Under its folds, wherever found,
Thank God, we have Freedom's holy ground.

Don't you love it, as out it floats
From the school house peak: and glad young
throats

Sing of the banner that aye shall be
Symbol of honor and victory?
Don't you thrill when the marching feet
Of jubilant soldiers shake the street,
And the bugles, and the trumpets call,
And the red, white and blue is over us all?
Don't you pray, amid starting tears,
It may never be furled through age-long years?

A song for our flag, our country's boast,
That gathers beneath it a mighty host;
Long may it wave o'er the goodly land
We hold in fee 'neath our Father's hand;
May that banner stand from shore to shore,
Never to those high meanings lost,
Never with alien standard crossed,
But always valiant, and pure and true,
Our starry flag, red, white and blue.

Margaret E. Sangster.



NATIONAL CONSOLIDATING WATCH CO.,

This concern is thoroughly reliable.—PUBLISHER.

LISTEN: FRIENDS \$5.45

A \$45.00 WATCH FOR

LADIES OR GENTS SIZE.

It was our good luck to find a manufacturer of watches who was badly in need of money. He had a large stock on hand. We had the money he needed. We took his watches at our price and gave him our money. We got about twice as many watches for our money as we could get today, and we are going to give shrewd people the benefit of the low prices at which we bought them. It was our intention to sell these watches at \$12.00 and give every person who bought one at this price

ONE WATCH FREE

But on figuring out the exact cost of these watches we find that we can do even better than we at first counted on, and consequently, cut the price till we know you cannot buy this watch from any other firm for more than twice the price we ask. Our price for this watch is \$5.45 and express charges.

This watch is the favorite with railroad men and you know that they cannot carry anything but the finest of timekeepers. In appearance it equals a watch that

USUALLY SOLD FOR \$45.00.

The movement in this watch is in 21 ruby jeweled movement, the finest movement made. This movement is manufactured under contract to be equal in every respect for timekeeping to an Elgin, B. W. Raymond, Waltham or Appleton, Tracy movement. It has specially selected jewels, full plate, dust band, quick train, lever escapement, jeweled pallets, patent regulator, sunk second dial, Arabic figures, enamel dial, patent pinion, double jeweled compensation expansion balance, straight line escapement, the finest watch made, time tested and regulated and fully guaranteed for 25 years. The case is a genuine gold laid case, handsomely engraved, in an assortment of patterns and both case and movement are fully GUARANTEED FOR 25 YEARS.

READ OUR PROPOSITION.

It is not necessary to send any money in your letter. Send us this "AD" with your NAME, POST-OFFICE and NEAREST EXPRESS OFFICE and state if you desire LADIES or GENTS SIZE WATCH and we will send it to your express office at once. We send the watch with THE PRIVILEGE OF EXAMINATION and we want you to call at the express office and carefully examine the watch before paying the agent so that you can see for yourself the bargain that you are getting. You pay the agent \$5.45 and EXPRESS CHARGES and the watch is yours. If the \$5.45 is sent by registered mail we will send the watch by return registered mail, we paying the postage.

REMEMBER.

This is a Double Hunting Case Watch.
Which we guarantee for twenty-five years. With ordinary care it will last a lifetime. Don't throw this paper aside and say "Well, I'll send for that next week." It will pay you to write at once. Now, Today.

A CHAIN AND HARM WITH EACH WATCH.
We have a number of watch chains and charms that we are going to sell at \$1.49 each, and in order to get some of them out into the hands of our customers so they can show them to their friends and tell them how cheap they are, we are going to give ABSOLUTELY FREE to the first 100 people who buy one of these watches, a Gents' chain and charm or a Ladies' 50-inch lozette chain fitted with a stone set slide. This is our extra present to those who order one of these watches.

WHAT WE GIVE FOR \$5.45.

We send with a LADIES or GENTS IN 21 JEWELLED railroad movement fitted in a gold laid double hunting case and with each watch a Ladies' or Gents' watch chain and charm. OUR BINDING WRITING GUARANTEE ACCOMPANIES EACH WATCH AND IS PUT IN THE FRONT CASE OF SAME. As to our reliability we refer you to the First National Bank of Chicago or Chicago Agent of Any Express Company.

65 Dearborn Street, CHICAGO, ILL.

Your Last Chance

to get Vick's Family Magazine a whole year for only **25c**

After August 25, 1904, it will cost you 50 cents a year. Why not send us \$1.00 at once and let us credit your subscription on our books four years in advance.

VICK'S FOR 1905:

FORWARD

THIS has been our motto ever since the present management took hold of Vick's in 1901. The thousands of enthusiastic letters which we are continually receiving from our subscribers convince us that we have made progress, but we are not satisfied. We shall do more the coming year than in the past, and are sure that our subscriber friends will assist us by interesting others. We shall still further enlarge and improve the publication in 1905 and hope to make the covers even more attractive than the present series, which have met with an enthusiastic welcome among our subscribers.

Floral Features. The leading feature of Vick's has always been its floral articles and illustrations. We are particularly careful to furnish only practical, helpful information on floral subjects. Those who desire to beautify their grounds, or to succeed with their house plants will find just the information desired in the columns of Vick's. Our writers are the best and the information given is absolutely trustworthy. No other publication gives such complete and practical information about flowers as Vick's.

Stories. In order that we might furnish to our readers the best of short stories, we conducted a contest, offering liberal prizes and thus secured twelve excellent stories, selecting the best from a large number of MSS. without regard to the reputation of the writer. Our readers can depend on finding a good short story in each issue of Vick's during the coming year, also an installment of a continued story.

For The Children. It is our aim to publish something of interest to every member of the family in each issue of Vick's. The stories and poems which we have in store for the children for the coming year, are excellent and are bound to make Vick's a popular magazine among the little people. We believe that good, wholesome stories which teach children to be kind to animals and to each other, have a great influence for good—this is the kind of stories which we publish in Vick's.

Nature. We live at such a rapid pace in these days that too few of us stop to drink in the beauties of nature which are all about us. Birds and trees and wild flowers are so plentiful in the country as to be commonplace to many and for this reason they never stop to examine them and take in their beauty and wonderful construction. It is the object of this page to point out some of these beauties and wonders to our readers. Under the pen of N. Hudson Moore, this page in Vick's has opened up new worlds to thousands of our readers during the past year and we bespeak even more popularity for it in 1905.

The Household. The majority of Vick readers are homekeepers—those whose chiefest joy is to beautify the home and make it brighter and more cheerful for those they love. The butterflies of fashionable society have little use for Vick's, it is too practical and useful. We promise even more helpful and interesting articles on household matters for the coming year.

Mothers. Probably there is no class of people who feel more completely helpless than the young mother who finds herself alone in the home with a wee mite of

humanity to care for and no knowledge or experience to guide her. While groping thus in the dark or while anticipating the arrival of a little stranger, the "Mother's Meeting" department of Vick's comes as a Godsend to thousands of our readers. Mrs. Victoria Wellman, who conducts the department, is the mother of seven children and speaks from ample experience and a heart full of love and sympathy. Her words of cheerfulness and hope inspire her readers to bear the little trials and crosses patiently, looking for their reward in their happy, healthy children. For those who are specially tried or worried, Mrs. Wellman has kind words of cheer in personal letters, which it is the privilege of every subscriber of Vick's to receive.

Home Dressmaking. The large army of mothers who do the sewing for their families, find this department very helpful. The styles illustrated are the latest and the fashion hints, instructions for making, etc., are thoroughly accurate and trustworthy.

In The Garden. This department is conducted by John Elliott Morse, the leading writer of the day on garden topics. He has had a vast experience and is able to guide the amateur with unerring step through the labyrinth of little difficulties and perplexities which continually come up in garden work. Mr. Morse's enthusiasm knows no bounds, and those who read his department are sure to get the scent of the soil in their nostrils and travel gardenward. When one once realizes the great possibilities for real pleasure and economy there are in a good garden, nothing will keep him from the possession of it.

The Poultry Yard. "Oh! but we keep hens now," we hear you say. Yes, but do you get any eggs? Are the hens the right kind? Are they properly housed and fed? Do they pay or are they a continual expense? Mr. Vincent M. Couch can tell most people more about poultry raising than they ever dreamed of, and he can give pointers to those of long experience, which will enable them to turn an expense account into a pleasing profit balance on almost any poultry yard. All of his experience is at your command if you subscribe for Vick's.

Small Fruits. It is all right to go to the grocer, and buy wilted, bruised or half decayed fruit if one likes it that way, but it gives one the delightful sensation of living in a land of fatness, to go out and pluck luscious fruit from his own trees. Prof. H. E. Van Deman, who conducts this department for Vick's is a noted authority and writer on these topics, and to those who desire success with small fruits, his department alone will be worth more than the price of a year's subscription.

A Small Farm Well Tilled. It is our purpose to make Vick's an intensely practical and helpful magazine to all who live in the small towns or rural districts, or who are interested in any way in the soil. We shall give practical hints and information on a large range of subjects along the line of intensive farming. The articles which we shall publish will be from those who have had practical experience and who know whereof they speak.

Remember. That you get all of the above and more for the trifling sum of 25c. a year or four years for \$1.00 if sent before August 25th. There is no other publication like Vick's in all the world. It has a reputation for honesty and fair dealing which has been earned by an honorable business career of over a quarter of a century. If you do not subscribe for Vick's the coming year you will miss many of the good things in store for the reading public.

Vick Publishing Company, 62 State St., Rochester, N. Y.

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Holder is made of the finest quality hard rubber, in four simple parts, fitted with very highest grade, large size 14k. gold pen, any flexibility desired—ink feeding device perfect.

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You may try the pen a week if you do not find it as represented, fully as fine a value as you can secure for three times the price in any other makes, if not entirely satisfactory in every respect, return it and we will send you \$1.10 for it, the extra 10c. is for your trouble in writing us and to show our confidence in the Laughlin Pen—(Not one customer in 5000 has asked for their money back.)

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Safety Pocket Pen Holder sent free of charge with each Pen.

ADDRESS

Laughlin Mfg. Co.

286 Griswold St. Detroit, Mich.



The Household

Preparing Lunches.

BY JOSEPHINE WORTHINGTON.

Long Distance Lunches.—For a person going on a journey of several days, it is a good plan to put up each meal in a separate package with a label; planning to use the perishable fruits for the first few meals. If there are a number of people however, most things must be carried in bulk and it is well to arrange separate receptacles for the different kinds of food. Have a basket for fruits, nuts, cheese, etc. A tall tin pail with tight cover and handle such as contains ginger wafers in the stores, makes an excellent cake box, another larger one will hold the bread, knife, and butter jar. A third pail can be used for boiled ham, meat loaf, potato chips, pickled tongue dried beef, lettuce, celery, etc. Wash the lettuce, and pack carefully in a cocoa can or two pound baking powder tin; put on cover. It will keep crisp for two days. Wash the celery, wrap in wet cloth, then paraffine paper.

Basket Picnics.—If lunch baskets are to be used, wrap the bread in a cloth wrung as dry as possible out of cold water or do up each spread sandwich in tissue paper. Wrap the meat and cake in paper saved from cracker boxes.

For the Business Lunch.—Where it is possible, it is a good plan to have a small cupboard or even a starch box with a sliding cover nailed to wall which may contain a bottle of sugar, another of salad dressing, salt and pepper boxes, can of malted milk, jar of beef extract and some simple apparatus to heat prepared tea, cocoa and coffee. There are inexpensive wire attachments to gas jets. A piece of wire bent double will hold a tin cup on a lamp chimney.

Sandwiches.—The foundation of a lunch is the sandwich in which great variety can be displayed. White bread one day, brown another, rolls, cinnamon loaf, etc.

Meat Sandwiches.—Ham, roasted meat or game is better if minced fine and mixed with white sauce. Veal or beef loaf is also good.

Veal loaf—1½ pounds veal, one-fourth pound beef chopped fine, one egg, one-half cup bread crumbs, one-half teaspoon salt, one-fourth spoon pepper, onion juice and sage if desired. Mix, press into buttered cocoa cans, brush over with part of the beaten egg, bake slowly. When cold it can be taken from the cans, cut into thin slices, carefully returned and covered. In this way it is much nicer to be carried to the picnic than put directly on the bread.

Lettuce Sandwiches with salad dressing are tasty; a few chopped nuts can be added with the dressing or radishes cut very thin to show the red ring.

Fruits.—All the fresh fruits in their season, dates grape fruit, malaga grapes, raisins, form the best part of the lunch, when these cannot be obtained jams; and marmalades, rhubarb, orange, peach, spiced plums, fig paste can be spread on bread or served with thin wafers.

Fig Paste.—One-half pound of figs, chop fine; juice of one lemon; one cup hot water; three-fourths cup of sugar; cook slowly till a thick paste.

Puddings.—An occasional pudding should find a place in the lunch box. These can be carried in jelly tumblers, having a glass top that fits with a spring. All the gelatine puddings which can be varied, with chopped nuts, berries, raisins, or sliced bananas are good. Cup custard and rice suit a weak digestion. Candied sour cherries made at home are a delicious addition to various puddings, also bits of candied lemon and orange peel.

Pie.—When piecrust is approved, roll the paste very thin, cut the size of a small saucer, put in center two tablespoons of rich applesauce or other stewed fruit. Cut cover same size, moisten edges, press tightly together, bake in very quick

oven. They should be done by the time the fruit is heated.

Cheese.—For a railroad journey of several days the pineapple or Edam cheese is the best. The grocer will generally cut the top off which serves as a cover, keeping it clean and fresh. For the quick lunch, Neuchatel and the cream cheeses are good spread on bread or ginger wafers.

Nuts.—In hot weather when less meat is desired, nuts will form a substitute. They are nourishing and digestible if eaten slowly and moderately.

Last, but not least, must be something good to drink. In hot weather some people like iced cocoa; make it rather rich at home and when needed dilute with ice water.

Lemonade.—Make a syrup, cool, add lemon juice and bits of yellow rind. Reject the thick, white skin, add ice water when ready to use.

Raspberry vinegar makes a refreshing drink. Put four quarts of berries in a stone jar, pour over them one quart good vinegar, mash, let stand two days. Strain through a muslin bag. Add one pound sugar to every pint of this liquid. Boil slowly five minutes, skim, bottle and seal.

Grape juice, home made, is excellent. Use only Concord grapes. Wash, stem, heat and mash as for jelly; be careful not to boil. Strain and to each pint of juice allow one-fourth pound of sugar, heat, stir till sugar dissolves, skim and pour into strong glass bottles, cork and seal.

Shirt Waists.

E. J. C.

Shirt waists are such neat, comfortable garments that they merit the popularity which has been accorded them during the last few years. They are made of all kinds of materials, dimity, organdie, linen, lawn and other thin goods being preferred during the warm weather. Some of them are quite plain, others are elaborately trimmed with tucks, rows of insertion, piping, and stitched bands. If you are making a tucked waist, remember that the tucks are run in the material before the waist is cut out, then the pattern is laid on it and the piece cut like plain goods.

The display of waists was so pretty last summer that almost every woman bought a number of them. The result is that they have several this season that would need very little fixing over to make them ready to wear again. If the neck band is worn, take it off, press it smooth and cut a new one by it. If you have no pieces like the waist, use white muslin or linen. You have doubtless found that very few of the delicately colored waists could be washed without fading, despite the assertion of the dry goods clerks that they were fast colors. That was my experience at any rate, and I found upon examining my wardrobe this summer, several that were not much worn but were too faded and dingy to be presentable. So I boiled them in a strong suds containing a little sal soda to take out what color remained and dyed two of them pale blue and another cream color with diamond dye for cotton. Pink and green are pretty for shirt waists. No one can tell them from new waists, as last year's styles differ very little from those brought out this summer.

Recipe for a Happy Day.

"Take a little dash of cold water,
A little leaven of prayer,
A little bit of sunshine gold
Dissolved in morning air.

Add to your meal some merriment
And thought for kith and kin,
And then as a prime ingredient
A plenty of work thrown in.

Flavor it all with essence of love
And a little dash of play,
Let the dear old Book and a glance above
Complete the well-spent day."

LEARN TO WRITE GOOD LETTERS

For 20c. Send for
Course in Correspondence and
Business Letters. Write
to-day for particulars.

\$15 to \$25 a Week as Correspondent.
There is no pleasanter or more profitable employment for a woman than that of correspondent and literary (advertising) assistant. Mail-order house. Sherrin Cady's Correspondence and Advertising Course in Correspondence and Business Letters. Write to-day for particulars. \$15 to \$25 a Week as Correspondent. \$10 to \$15 a Week as Correspondent. \$5 to \$10 a Week as Correspondent. \$2 to \$5 a Week as Correspondent. \$1 to \$2 a Week as Correspondent. \$0.50 to \$1 a Week as Correspondent. \$0.25 to \$0.50 a Week as Correspondent. \$0.10 to \$0.25 a Week as Correspondent. \$0.05 to \$0.10 a Week as Correspondent. \$0.02 to \$0.05 a Week as Correspondent. \$0.01 to \$0.02 a Week as Correspondent. \$0.005 to \$0.01 a Week as Correspondent. \$0.002 to \$0.005 a Week as Correspondent. \$0.001 to \$0.002 a Week as Correspondent. \$0.0005 to \$0.001 a Week as Correspondent. \$0.0002 to \$0.0005 a Week as Correspondent. \$0.0001 to \$0.0002 a Week as Correspondent. \$0.00005 to \$0.0001 a Week as Correspondent. \$0.00002 to \$0.00005 a Week as Correspondent. \$0.00001 to \$0.00002 a Week as Correspondent. \$0.000005 to \$0.00001 a Week as Correspondent. \$0.000002 to \$0.000005 a Week as Correspondent. \$0.000001 to \$0.000002 a 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In The Garden

CONDUCTED BY JOHN ELLIOTT MORSE.

July's Gifts.

"With sweet cooling berries I strew the hedge,

With rare, ripe cherries I fill the trees; And odors sweet from the new mown hay Come floating on the evening breeze."

We sometimes call her queen of the summer; and truly her gifts are lavish.

This year however, her crown will be lacking some stars, for the elements have played fast and loose; and August will be carrying off some of the honors which of right belong to her elder sister. We may not complain, though, for doubtless ere the month passes, July will to some extent redeem herself and we shall miss but little of her ordinary grandeur.

The unusual tardiness of the season plays all sorts of tricks with our calculations, and we hardly know whether it is seed time or harvest. There are some lessons to be learned from a season like the present; but none perhaps of greater importance than the fact that high fertility and thorough culture go far towards mitigating the evils of so cold a summer. Many of the June days, our men labored all day long clad warmly enough for April. This excessive cold with the poor soil and infertile seed with which we have had to contend, puts us at a serious disadvantage. For the encouragement of others, it is sometimes well to speak of our own failures, and so without any spirit of murmuring or complaint we desire to recall some of the experiences, which we trust will prove

Useful Object Lessons.

In the first place we have learned by actual test that seeds will sometimes utterly refuse to germinate in poor, thin soil, where in rich ground they will thrive and do nicely. Our soil, while naturally good, has been starved by constant cropping and little or no feeding until its spirit, so to speak, is utterly broken. Not long ago, we had occasion to purchase seeds of two or three varieties, both for ourselves and a neighbor. His soil, almost identical with our own in natural elements, had been highly fertilized for several years, while ours had been literally starved. His seed grew and the crops are thriving finely, while much of ours utterly refused to grow and what did germinate is doing indifferently. So we see more and more clearly the force of the adage, "Feed the soil and it will feed you."

A second lesson is that frequent culture has had a very beneficial effect upon the vegetables; so marked in fact that it is readily seen in rows standing side by side. Those receiving the most attention are standing advertisements for thorough culture. If too wet, then we should work to break up the crusts formed by the continuous rains. Plant life in general requires the air and sunshine, and this may be given by judiciously stirring the soil. If the weather is dry, then the culture is needed to form a dust mulch so that the moisture will not evaporate.

So, viewed from every standpoint, successful work requires constant effort. If either the fertilizer or culture must be dispensed with, the former rather than the latter had better be discarded. Most of us however, can obtain the fertilizer and I am sure that all of us are willing to see that the cultural conditions are kept inviolate. Just now as I sit at my table, I am wondering how many of our friends are busy in their gardens. Some, no doubt, may whisper almost audibly, physician heal thyself and go forth into your own garden and give precept and example an opportunity to walk hand in hand. Well, to such I say that I have just come in from the field where some of the men were at work, and while there, I was really taking my part of the labor. A group in another quarter re-

quired attention, so after helping them out I have found a few spare, or rather stolen moments to jot down

Some of the Day's Doings.

To begin with, four o'clock a. m., found the head gardener astir. There was correspondence and other writing to be attended to, and work for the day must be mapped out for several men. Two and one half hours of this work gave an appetite of no mean proportions; and there was no disposition on my part to put off until tomorrow what ought to be done today. By this time the men, or rather, what were left of them (for three had decided to attend the circus a few miles away), were lining up to receive their orders for the day. Teams were to be set at work and the workmen were dispersed here and there to hoe and weed or prepare vegetables for the demands of the trade. As the day drew nearer the close, it seemed that the more work that was accomplished, the more piled up to meet us at every turn in the road. But withal we see that while much remains to be done, some progress has been made, and we find some comfort in the thought that labor has its reward.

Vine Plants.

This year we started a good many melons and cucumbers in the hot beds. For this purpose we used berry boxes of the cheapest grade, costing thirty cents by the hundred. These were filled with rich soil and six to ten seeds were planted in each box. This seems like heavy seeding; but we have to remember that last year was exceptionally bad for the maturing of seeds and we prefer to pull out some plants after they are established, rather than to have a poor stand, so we sowed thickly. At setting time, the boxes were thoroughly soaked and the bottoms sufficiently cut away to give freedom to the roots. Holes, large enough to sink the boxes, were dug and box and all were planted. I have never been successful in planting the seeds on inverted sods as is sometimes recommended, for the plants are very tender and hard to handle at best. When carefully handled as above however, they never feel the shock of removal to permanent ground and very seldom fail to grow.

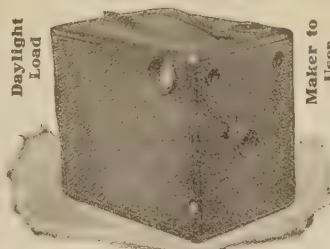
Our lima bean trellis has required considerable work; but we feel amply repaid. Strong posts were set to reach seven feet above ground and number eleven fence wire was stretched at top and bottom, the beans were planted one foot apart under the lower wire and when they are up ready to climb, wool twine is tied to the wires above and below, and they readily climb the strings. They take much more kindly to strings than to poles and require no future training or tying. Of course we use considerable ground, but the small gardens need not be rejected on account of size for other means of training will readily be suggested and for covering unsightly places they are very desirable.

Belated Work.

Everybody must be late with their gardens this year I think, so we are able to sympathize one with the other. But even July affords many opportunities for the later vegetables; and many of our readers who have made no attempt as yet, have some spare ground that might be properly used. Beans, late peas, cabbage and in fact most of the garden vegetables can be successfully grown and why not make the trial? So many varieties can be raised even now that it would be hard to give a complete list; and we feel sure that careful attempts will be rewarded. Our readers number many thousands and of course all are not in

(Continued on page eighteen.)

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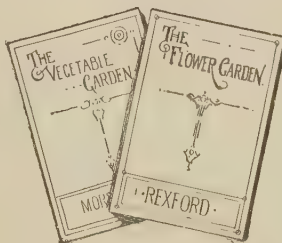
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Maturity Table.
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Poultry Department

CONDUCTED BY VINCENT M. COUCH.

Summer Care of Hens.

As a rule all flocks lay well in spring and early summer, but along in July and August when the weather becomes hot they are apt to begin to "let up." At this season eggs are likely to be quite high, hence a good part of the year is lost. While we expect there will be a falling off to some extent at this time and during the moulting period, I believe that by proper feeding and good care a good many eggs may be had at this season. We feed quite heavily of grain in cold weather and give mash, etc., and I think we are too apt to continue these rations along in the summer. In other words we do not adjust our plans of feeding to meet the external conditions. In cold weather the hens must have more fattening food, meat, etc., but as the weather becomes warm so much of this is not required and when the weather gets hot, unless the hens are shut in close, very little or none of this kind of food is needed. In fact, if fed it will do more harm than good, for it will go to make fat and that is what should be avoided. There is less danger of over feeding of grain to hens on open range than to those confined in yards, for they balance it with the grass, worms, etc., that they pick up. So if we are observing and learn what hens eat when at liberty, we can feed them with better results when they are penned up. It has been my experience that hens need more bulky food than is ordinarily given them. Feeding so much concentrated food, and no vegetables or green stuff tends to create conditions favorable to disease. While a good deal of this bulky food may not contain the elements that go to make eggs, it is valuable in diluting the concentrated foods, helping to keep the hens in a thrifty condition. I am quite favorable to feeding the mash at night in warm weather, instead of in the morning, and in summer I seldom feed a mash oftener than three days of the week, and then only just about one half as much as in cold weather. Equal parts of bran middlings and ground oats make a good summer mash. A small amount of linseed meal is also valuable, as in summer it aids in making feathers and preparing them for the moult. If I have skim milk, I always use this in wetting up the mash. For yarded hens that are unable to get green stuff, I provide cut clover, by placing it in racks, or boxes with slats nailed on sides, so they can reach in and eat the clover, and yet not get into it. I find clover very valuable, both for summer and winter feeding. If possible have a little patch of clover where the hens can go in and eat every day, if only for an hour or so. If it has to be cut for the hens, it can be mowed three or four times during the summer. But if we do not have the clover, then some other grasses may be used with good results, but all kinds should be cut fine, when placed in the boxes. Hens will consume a good deal of refuse from the garden, if pains are taken to prepare it for them, such as celery and cabbage trimmings, chopped onions tops and lettuce. I have had excellent results by feeding all the dry grain through a feeding machine; this plan lengthens out the feeding time and keeps them busy.

The importance of pure water or wholesome skim milk to drink in warm weather can not be over estimated, and grit, shell and charcoal should not be omitted, neither should a close watch for lice and mites, which no doubt are responsible to a greater extent for poor profits in summer than any other one thing.

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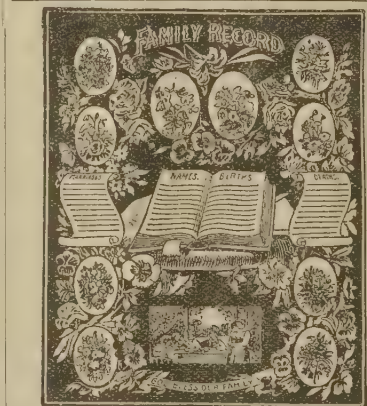
Chickens hatched along in July and August if well taken care of for just four weeks are profitable stock to raise, but I find in many instances that the late hatches do not turn out well for the reason that they are neglected. Because

the weather is warm some people seem to think that the chicks will take care of themselves almost from the start. If there are any lice or mites on the premises they are sure to be active and make their share of trouble at this season of the year with the little chicks, as well as with the old birds. It will take but just one of these large head lice on a chick to fix him in two or three days so the chances of his living to amount to anything, will be poor. Undoubtedly, a great many times these lice, with the numerous little mites—which are most sure to be on hand, are more the cause of a failure in midsummer than the hot, sultry weather. Little chicks enjoy warmth, in fact it is necessary to their well-being, but there is such a thing as over-doing the matter. To compel them to remain out in a boiling hot sun is not conducive to their health, "they just can't stand it." But if they are kept free from vermin and are surrounded by the proper conditions of food, drink and cleanliness they should grow rapidly. If eggs are the thing in view I would suggest that for July and August hatches only quickly maturing breeds be used, such as the Mediterranean class. Although Rhode Island Reds with us hatched in July last year laid in December. Late hatched chickens that do not have good care all the way through, so as to come very near to full maturity before cold weather comes, are not apt to lay until spring, and for this reason great care should be exercised to shove them along as fast as possible.

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Los Angeles,
Cal.

Possibly you may be contemplating the erection of a poultry house this fall. There is no better season in the year to build than in late summer or early fall. I find there are a great many people living on rented places who wish to keep a few hens, and others who own their places, and do not wish to put much money into a hen house. For this class I will submit the following details of a building costing but \$25.00 exclusive of labor. Size of building sixteen by ten feet, shed roof seven feet high in front and four feet high in the rear, two six light sash, ten by twelve glass, on south side, door on east end. The two other sides being entirely closed up. The sides of rough sheathing and battened on outside, inside lined with tarred paper. The roof of hemlock boards and shingled. Dirt floor well drained. Place sills on stone foundation, and fill in level with loose dirt. If small stones or gravel can be had it may be used to advantage in filling in for the floor before covering with dirt; this will insure against dampness. Make roof to project over about fourteen or sixteen inches for protection. Roosting platform should be made of planed boards so it may be more easily cleaned off. Perches of two by four material rounded on top and ten feet long, fastened together two feet apart by cross pieces and hinged to the studding, two and one-half feet from the floor. In this way they may be raised and temporarily fastened to the rafters, when cleaning off the droppings. The cost of material for this house will depend somewhat on the location, as building material is much more expensive in some places than in others. Almost any one who is handy with tools can put up such a house in a week or ten days, and in this way provide a respectable and comfortable house for its fowls. Those who wish to keep a moderate sized flock of hens and have at present no suitable place, I would urge to consider this plan.

Questions and Answers.

Do Leghorns become broody? They frequently do after a couple of years old, but they are not reliable sitters and mothers.

What are the greatest fat producing foods for poultry? Of grain, corn and its by products; buckwheat is also quite fattening; potatoes and all starchy vegetables.

My hens make a wheezing and snuffing sound when on the roost at night, what is the trouble? Colds or first symptoms of roup. Separate the afflicted ones from the others at once and treat them.

Oak Hill, Napa Co., Calif.,
May 24, 1904.

Mr. Vincent M. Couch,
Dear Sir—You may get a variety of responses to your request in Vick's for information in regard to poultry raising in California.

When I travel through a section of the country and find that nearly everyone is engaged in one particular occupation, I judge that to be a good place for that line. About forty miles north of San Francisco, at the head of tide water, is Petaluma, a little city of about 6,000 inhabitants. Here is to be found the poultry producing metropolis of Northern California. Some of the largest henneries run flocks of from two thousand to five thousand fowls. It is considered one man's work the year around to take care of a thousand chickens. Land within a radius of ten miles of Petaluma is held at prices varying from sixty to two hundred dollars an acre.

Today's quotations in the San Francisco papers put eggs at from sixteen to nineteen cents. The cost of feed varies so much with the individual notion of what and how to feed that no safe figure can be quoted here. Wheat is worth today from seventy-five to eighty cents per bushel and is the staple poultry food. The stores in Petaluma deal in all the preparations designed to keep hens healthy and busy.

The climate of the country anywhere on tide-water of San Francisco Bay is good for poultry; but some spots are exposed to severe winds and would better be avoided. The coast climate, i. e., of points lying near the ocean is too damp for people whose lungs are not strong. While this Golden State is being vigorously praised by men who represent some

money making scheme or other, I should say the immigrant need not expect to find any very large openings unfilled. California has been over-advertised and there are lots of people here who would go back to "America" if walking was good.

I've lived here over forty years and love the state so that it makes me angry to have strangers make hasty remarks about the country. It's all right once you get located and acclimated.

Very truly yours,
M. Reynolds.

Death by Neglect.

Dr. D. M. Bye, the eminent specialist, of Indianapolis, says thousands of persons die from cancer every year from no cause save neglect. If taken in time not one case in a thousand need be fatal. The fear of the knife, or the dread of the burning, torturing plaster causes a few to neglect themselves till they pass the fatal point where a cure is impossible, but by far the greater portion die because their friends or relatives, on whom they are dependent, are insensible to their sufferings and impending danger till it is too late. Book sent free, giving particulars and prices of Oils. Address Dr. D. M. BYE, Drawer 505, Indianapolis, Ind.

I CURE CATARRH

With California Yerba Lip-Tus, a simple herb of great potency. Don't delay. Send 2c postage for FREE treatment. PROF. H. W. HILL, Box 734, Los Angeles, Cal.

YOUR name on 25 stylish cards postpaid for 10c 100 for 30c. Correct sizes and types. A. J. KIRBY, V. No. Tiverton, R. I.

BASHFULNESS, Blushing, Lack of Confidence, Nervousness cured by our BLEND. New discovery. Free package with first trial. Jendess Chemical Co., Box v. 403, Wilmington, Del.

AUTOMOBILE, exquisite toy; dainty fun; sample delicious. Spanish tea; formulas, cure croup, dropsy. All 25c coin. J. Boyle, 110 W. 127th St., New York.

Loose False Teeth Made Tight

For ten years I have been using a simple, harmless preparation which will make any upper plate tight. Send for circular. W. H. POVALL, Dental Surgeon, Mt. Morris, N. Y.

\$\$\$ WHY NOT start a business that will pay you \$5 a day the rest of your life? Full particulars, also valuable present FREE. H. KLEEN & CO., Dept. 8, Jersey City, N. J.

HOW to start a magazine at small outlay. We print them for you. Samples, 10c. Cooperative Magazine, Chicago, Ill.

CENCO HAIR VIGOR A scalp invigorator and highly Antiseptic Hair Tonic. Eradicates scurf and prevents dandruff. Makes the hair Wavy, Rich and Beautiful. Prevents falling hair. Cures all scalp diseases. To positively prove its merits we will send one bottle (full pint size) transportation prepaid for only 25 cents. No further charges. A. EVERTY & CO., Box 46, Station D, St. Louis, Mo.

DO YOU LIKE ICE CREAM? Especially if it's made in the "ALASKA." It's the perfect freezer. Easily operated. The turning of the crank produces a motion which causes every particle of cream to be smoothly and evenly frozen in a very short time. Tubs are made of Northern Pine, one to-day, 4 quart size \$2.50-6 quart \$3.50, other sizes all prices get our Free Bargain Catalog. GANABAL HAIL ORDER HOUSE, CHICAGO.

GINSENG Fortunes in little gardens. Easily grown; hardy everywhere. Roots and seeds for sale. Plant in spring or fall. Complete booklet and magazine, 4c. Ozark Ginseng Co., Dept. E-12, Joplin, Mo.

FREE Spiritual reading. Send handwriting with 3 questions to answer and 10c for expenses. R. H. EICHNER, Dept. W, 1127 Connet, Baltimore, Md.

EAT KRAUSE'S APPETITE TABLETS will make it a pleasure. Try them—25c. Send for circular and learn all about them. KRAUSE & CO., 52 Court St. Brooklyn, N. Y.

CONFINEMENT SHEETS Waterproof Hygienic. 50c, 75c, \$1.00 Circular and sample of goods free. Waterproof Sheet Co., 348 Francis Ave., Grand Rapids, Mich.

ONE PACKAGE FREE!

For more than 20 years I have compounded prescriptions. If I were offered \$1000.00 I could not prepare a better prescription for a stomach remedy than John's Stomach Tablets. I offer to send to all who suffer from any form of stomach ailment one package of this valuable remedy Free. John's Stomach Tablets cure dyspepsia, indigestion, gas on stomach, heartburn, palpitation of the heart and all ills caused by poor digestion. These tablets assist the stomach to digest food. That is their mission. The double action is within things right in the stomach. They create new life and energy by strengthening the stomach.

Read the Following Testimonials.
Mr. John Morrow, Springfield, O.
Dear Sirs—Enclosed you will find \$2.00 for which send me another box of your stomach tablets and receive payment for box already sent. I have been eating everything I wanted and have not been troubled as much as usual.

Respectfully yours, James H. Archer, New London, Conn.
John Morrow, Springfield, Ohio.
Kind Friend—Your Stomach Tablets are all you claim for them. They cured me of palpitation of the heart. I got so hungry and weak at times that I could hardly exist, but I have not been troubled since I used the sample you were so kind to send me. I can't thank you enough.

Respectfully yours, Jane Dively, Pavia, Pa.
Write and free package will be sent by return mail
JOHN MORROW, Chemist, 412 Forest Building, Springfield, Ohio.

Paying Investments

If you are looking for a safe, practical, good paying investment, buy a few yearling cattle, sheep, or Angora goats and put them on the Co-operative Ranches in Montana; they guarantee the best of care for one-half the profit and assume all loss over 5 per cent. If you have not heard about this great Company which keeps cattle, sheep and Angora goats for 800 men, women and children, all over the United States, Canada, Mexico, and Europe, write for information; you will be interested. Address, Lock Box G,

Co-operative Ranches
Great Falls, Montana.

Ruptured

Send for our DOUBLE RADICAL CURE \$8.99 On Free Trial
"THE ONLY PERFECT TRUSS." Totally unlike anything made. You Pay When Satisfied. WE TAKE ALL RISK.
F. BUCHSTEIN CO. 634 1st Ave. S., Minneapolis

Boys and Girls Fountain Pen Free for helping us advertise by showing our circular to just a few of your friends. We pay all expenses. Send your name and address right away. SEARS, MCNEILL & CO., Station A, Boston, Mass.

LITTLE DARLING SKIRT SUPPORTERS Best on earth. Package 25c. Particulars for stamp. Worth writing for. Special price to agents. Milton H. ROGERS, Dept. 20, 1126 Ridge Ave., Phila.

Learn something making you rich. 10c. Women especially. N. H. Klopp, Vinemont, Pa.

Perfect Health AND Dazzling Beauty How to secure them. Send us a postal and we will tell you free. T. F. Ireland, 228 Main St., Stoneham, Mass.

WOMEN TO SEW Shields at home; plain sewing only. It's all piece-work; good pay. No material to buy. Send reply envelope for particulars and prices we pay. UNIVERNAL CO., Dept. 5, Philadelphia, Pa.

\$15 FOR 50c PIECE

if dated 1853, \$30.00 for a 25c. piece of 1827, \$7.50 for a 3c stamp. A fortune may slip through your fingers any day. Keep all money you have coined before 1886 and send at once for (a) books on values of over 1200 varieties and dates of old coins and stamps. Both for 10 cents (silver).

C. WILLIAMS CO., Winchester, Ind.

Goat Lymph Treatment Cures Nerve Diseases, Nervous Prostration, Brain Fog, Locomotor Ataxia, Rheumatism and General Debility. Our Gosselin Tablets are the original preparation of Gosselin's Lymph. \$1 a bottle postpaid. Write for FREE sample to Gosselin Co. 52 Dearborn St. Chicago

FREE A large sample of "GIBSON GIRL BEAUTY CREAM" will be sent absolutely free of charge to every lady sending her name and address and a two cent stamp. We do this to positively prove that it is the best preparation in the world for beautifying the complexion, and removing freckles, sunburn, roughness and redness of the skin, and all other imperfections. Address THOMAS H. BEALL & COMPANY, Cicero, Ind.

SELF HYPNOTISM.

I have proved to the United States Government—memorandum opinion No. 139, N. that I have made a late discovery which enables all to hypnotize themselves instantly at will, awaken at pleasure, cure all the ills of life, become a wonderful clairvoyant so they can see all over the world, read the minds and thoughts of others, do thousands of hypnotic feats. This is called Mental Vision Lesson will be sent absolutely free to everybody actually enabling them to do the above without any change whatever.
PROF. R. E. DUTTON, Lincoln, Nebraska.

NEW FITZGERALD

A Wonderful Remedy is Found that Permanently Cures this Terrible Disease. YOU MAY TEST IT FREE.



Mr. Lemuel Davis, of Sherrodsville, Ohio, writes: "I am trying to tell the world of the marvelous cure of my son. He has not had a single fit in seven months, and when I saw your advertisement in the morning paper, he was having fourteen a day. A council of experts had just pronounced him incurable. The Probate Judge had ordered him to the Home for Incurables at Gallipolis. His reputation will never die in this town, for all of our friends and neighbors consider this cure miraculous. If you suffer from fits, or nervous troubles of any kind, you should make a test of this treatment at once. Its cures are most wonderful. Many who have suffered for years are practically cured by a two weeks' trial treatment which the doctor offers to send to any sufferer asking for it. It has cured thousands where all else has failed, and will, no doubt, cure you. Write for the treatment and make a test for yourself. Address Dr. Charles W. Green, 75 Monroe St., Battle Creek, Michigan.

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Astringent Lotion will positively cure all forms of skin trouble. Your money back, and no questions asked, if it don't cure yours. By mail, 25c. SACKETT CO., 152 East 36th St., Chicago, Ill.

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determined to try it. Mrs. Townsend says that before she gave her husband half a box of Milo Tablets he lost all desire for whiskey; the sight or odor of whiskey and beer now makes him deathly sick. Mrs. Townsend's word of gratitude is only one of the thousands in possession of this company. Anyone who will send their names to the Milo Drug Co., 89 Milo Building, St. Louis, Mo., will receive by mail, sealed in plain wrapper, a free package of this wonderful remedy, and full instructions how to cure the drink habit. It costs nothing to try it.

CALIFORNIA SOUVENIR 10CTS.
A miniature pillow of Mexican Burnt Leather, size 2 1/2 in., beautifully decorated and filled with California roses or violets. Dainty and lasting perfume. To be worn on the person or kept in the clothing. Delightful odor. To any address for 10c., 6 for 50c. List of California Novelties Free. FRANK HENNINGSON, Perfumer, LOS ANGELES, CAL.

Earn \$8 ADVERTISING OUR WASHING FLUID (By Mail) Send 5c. Sample. A. W. SCOTT, COHOCES, N. Y.

Women Prefer THE SIPHO
To any other Syringe, because of its effectiveness, simplicity and everlasting durability. Perfectly reliable and positively safe. Sold heretofore to physicians, but now offered direct to private home service. Douche taken with perfect ease and comfort in bed. Injures reclining posture, the only effective way. Compressed air force for injection, and vacuum suction for return. Injures and withdraws simultaneously a quart douche in twenty seconds, and without a drop of leakage. Don't compare the SIPHO with the ineffective rubber bulb, fountain and wall bag affairs, so powerless and unreliable. Sold on approval, express prepaid. Write for Free Booklet and full information.

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GOLD WATCH & RING FREE

An American invention awarded with Gold and Plated Case, fully warranted to keep correct time, equal in appearance to a Solid Gold Filled Watch warranted 25 years. Also a Solid Gold Ring set with a rare Clairo Gem, sparkling with the fiery brilliancy of a \$50 diamond ring, are given absolutely FREE to Boys and Girls or anyone for selling 20 pieces of our handsome jewelry at 10c each. Send us your address and we will send you the jewelry post paid, when sold send us the \$2, and we will positively send you both the watch and ring, also a chain for quick work. ERIE MFG. CO., Dept. R 6, CHICAGO, ILL.

The Many Purpose Coffee Mill. An article that every housekeeper is looking for. Novel, ornamental and time-saving. Just what is needed in every family. Circular free, also catalog of Household specialties. ELIOT SUPPLY COMPANY, Jamaica Plain, Mass.

Corn and Bunion Cure Free! Send me a stamp and the names of 5 people who have Corns, Bunions or Callouses on bottom of feet and I will send you a package of my wonderful Corn and Bunion plasters, Free. H. L. McNulty, Druggist, Norwood, N. Y.

Fruit Notes

Items by Fruit Growers.

The aphid, or green louse, can be killed without any injury to the foliage at all without much trouble. Take one-fourth pound of epsom salts, dissolve it in one gallon of water and apply with an ordinary spray pump, a broom or sprinkling can. Once the aphid has gone on so long that it has curled itself into the leaf you cannot reach it with anything. J. H. Ledy, Marion, Pa.

Two years ago a grower in this section left two rows of cherry trees unsprayed. The resulting loss he estimates at about \$200, but thinks the experiment has been worth enough to balance all its cost. M. N. Edgerton, Petoskey, Mich.

The vegetable lice which sometimes infest melons may be killed by the application of whale-oil soap, eight pounds to fifty gallons of water, but the essential thing is to have a good strong vine, which will not be harmed by these insects. J. W. Lloyd, Urbana, Ill.

My orchard of sixteen acres set in 1880, gave me the past season a net profit of \$125 per acre. Early in the season when it became evident that the trees would overbear, we went to work and succeeded in thinning four rows, about half-way up the trees, at a cost of seventy dollars. The fruit on the thinned portion was nearly all first-class, while in the rest of the orchard were quantities of culls, not wormy, but undersize or otherwise second quality. The seventy dollars paid out for thinning brought in \$1,000 of increased value. If the whole orchard had been thinned the gain would have been at least another \$1,000. T. O. Wade, Traverse City, Mich.

While the profits of commercial fruit growing are large and certain, the family fruit garden will always be a source of great profit. The land owner who does not have a full variety of fruits of his own growing, is missing his greatest opportunity of safe high living at small cost. Among the first fruits of the season the strawberry will ever hold leading place in fruit gardens and the appreciation of the masses. We all naturally like to see quick returns for any of our efforts, and that is one reason why sharpeners with "get-rich-quick" schemes find such ready victims. There are no cheats in nature's scheme of growth and development, and if good strawberry plants are properly tucked away in almost any bed of mother earth, it only requires a few months of culture and plant growth before one can see the wondrous harvest of delicious berries to delight the eye and tickle the palate. J. H. Hale, Hartford County, Ct., American Cultivator.

Thin the Apple Orchard.

Recent investigations by the Horticultural Department of the Cornell Experiment Station reveal the fact that, in many of the older apple growing sections of the State, the most serious enemy of the orchard is the tree itself. There are far too many on each acre of ground. They are now competing for food, for light and for space. Statistics show that the yield decreases as the number of bearing trees per acre increases. In most orchards the trees stand forty to fifty feet apart; yet at forty-five years of age they are crowding, and they should be thinned. Probably they will not be thinned. The tillage is excellent, the pruning and spraying are sufficient, but the trees crowd each other, and maximum crops of maximum quality cannot be raised under these circumstances. —John Craig, in New York Tribune.

Stock in Orchards.

Now and then we see the advice given to pasture the stock in the orchards. But if the orchard is a modern one we doubt much if this advice is good. It might have been all right in the old fashioned orchard that had trees headed high, and of which the stock could not eat the lower branches nor gather the fruit from them. But in some of our best orchards the trees are headed so low

that the branches almost lie on the ground, and in the growing season a large amount of fruit would be within the reach of the stock, whatever kind it might be. Poultry is about the only class of farm stock that can be given access to the orchard without running great chances of extensive injury resulting. Farm Sentinel.

The Currant Bushes.

Under favorable conditions the currant is a vigorous grower, and, of course, needs a large supply of food. Its roots are small and fibrous so fertilizers should be applied generously, directly, and at least annually. The neglect to yearly dress the bushes after a bearing age is the reason many fail to succeed in the cultivation of this fruit. These annual dressings need not be large, but should be applied about the roots of the bushes and always before the ground freezes. Any well rotted manure will be beneficial, with the addition of wood ashes, bone meal, or chemical fertilizer. An examination of the root system of the currant will convince one of the necessity of frequent applications of fertilizing elements to assure good crops of fruit. The roots grow in a limited space and largely near the surface. The currant pushes forward so early that the growth of the wood for the season is mainly accomplished by the tenth of June in ordinary seasons, and the fruit half to two-thirds grown in Connecticut by the end of May. This, and the fact that the roots grow near the surface, point to shallow culture near the bushes, and the necessity of keeping the ground clear of grass and weeds.

Growing grass among the trees, then cutting it for hay, is not an experiment in many of our orchards, but a practice which does not produce the most desirable results. If clover is allowed to grow among bearing trees, which in many cases seems beneficial in fixing nitrogen, there should be at least a portion of it left for mulch to keep the ground from getting too dry in July and August, when the fruit crop is a heavy drain on the tree for moisture, at least where water is not available to supply in a measure what has been evaporated and absorbed by the grass.

It is just so much money thrown away to set out an apple tree where the ground is continually wet. Apple trees cannot go with wet feet and not catch their death of cold.

Cherries were known in Asia as far back as the seventeenth century.

To Women Who Dread Motherhood!

Information How They May Give Birth to Happy, Healthy Children Absolutely Without Pain—Sent Free.

No woman need any longer dread the pains of child-birth, or remain childless. Dr. J. H. Dye has devoted his life to relieving the sorrows of women. He has proved that all pain at child birth may be entirely banished, and he will gladly tell you how it may be done absolutely free of charge. Send your name and address to J. H. Dye, 116 Lewis Block, Buffalo, N. Y., and he will send you, postpaid, his wonderful book which tells how to give birth to happy, healthy children, absolutely without pain; also how cure sterility. Do not delay but write today.

Rheumatism Cured Free!

After spending 5 years as chemist, I have discovered a wonderful cure for all kinds of Rheumatism. Send me a stamp and the names of 5 people who have Rheumatism, and I will send you a package of this wonderful cure, free.

H. L. McNULTY, Ph. G., Norwood, N. Y.

PHOTO BROOCHES 10c.

Send us any photograph you want copied and we will return it unharmed with an exact copy on one of these pretty ribbon brooch-mountings for only 10c. All our Photo-Minutures are exact and perfect reproductions. We send this 25c. sample for only 10c. to introduce our goods and send you Free our large Ill. price-list of photo-minutures, jewelry, novelties. Agents wanted. CORONA MFG. CO., Box 1275, Boston, Mass.

The Safety Lamp Filler. A hinged connection between burner and lamp. No unscrewing burner to fill lamp, renders lamp non-explosive. A large and small size, 20c postpaid. B. Sharps, 70 W. 97th St., N. Y. City.

Photographs

Size 2 x 3 inches. 25 Cents Per Dozen. Finely Finished Photos. How to get them. Send any photo with 25c. and 2c. stamp for return postage and get 12 elegantly finished "Triby" Photos made from it. Original photo returned unharmed. FREE.—A sample "Triby" Photo and our 28 page, illustrated catalog of Photo Jewelry, Photo supplies and latest style Photos sent from 25c. to \$3.00 per dozen.

STANTON PHOTO NOVELTY CO., 28 Market St., Springfield, Ohio.

A Good Refrigerator at a Low Price.

Is made of solid ash, Antique Oak Finish, lined with Galvanized iron, single door. Outside 28 inches long, 19 inches deep, 48 inches high. Ice Box holds 61 pounds of ice. Price \$10.25. Send for General Merchandise and Rubber Goods Catalogues; they are free. F. T. FISK, Dept. M, Cassopolis, Michigan

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Something new. Send stamp for Extra Special Offer. Krawlow Co., 827 New Eng. Bldg., Cleveland, O.

"LOVE AND LIFE" production (only authentic) of painting presented to U. S., and hung in White House, despite protest of W. C. T. U.—10 cents CAPITAL ART WORKS, Wash., D. C.

PARTNER WANTED in each locality. Either sex. No investment. Simply give us names and information. We do the hustling. You share the profits. Vick Pub. Co., Rochester, N. Y.

CHEAP FARM LANDS

Located on the Yazoo & Mississippi Valley R. R. in the famous

YAZOO VALLEY

of Mississippi—Specially adapted to the raising of

COTTON, CORN, CATTLE AND HOGS.

SOIL RICHEST IN THE WORLD

Write for Pamphlets and Maps.

E. P. SKENE, Land Commissioner, Central Station, Park Row, Room, 520 CHICAGO, ILL.

FISH Caught easy with our "C.C." bait. They can't resist it. Try it. 15c. package. THE NATIONAL CO., Binghamton, N. Y.

BED-WETTING

and all bladder and urinary troubles cured. EN-U-R-SINE cures Bed-Wetting, and incontinence of urine during the day-time, both in the old and young. It is the only cure prepared by a physician who guarantees it. Ladies troubled with a frequent desire to urinate and a burning sensation use it with perfect success. Send your address to DR. F. E. MAY, Drawer 7, Bloomington, Ill., and receive sealed a free sample.

THOUSANDS DIE

Every day of KIDNEY diseases which the doctor overlooks and you too late. Send me a sample of your morning urine and I will tell you all about your kidneys free of charge. Send four cents for mailing case and bottle for urine. Address J. F. SHAFER, M. D., Water Doctor, 403 Penn. ave., Pittsburg, Pa.

Our Magazine a Whole Year Free.

We publish the latest, most up-to-date magazine in the United States: full of bright, interesting stories, suggestions for the home kitchen, etc. Just what you need. To introduce it we will send it a whole year FREE to any person sending us the names of five friends who like good stories and 10 cents to pay postage. This free offer is made to get one subscriber to each town who we can refer to, and also get names to whom we can mail samples. Get in your names before our offer is withdrawn. The 10 cents for postage may be sent in stamps if you wish. Home Favorite Magazine, 223 7th St., Des Moines, Ia.

Farm Notes

The Well-Tilled Garden.

The little farm well tilled is the lesson the foreigner in our country districts is teaching and the scarcity of help is compelling natives to apply. At a farmer's meeting last winter it was said and not disputed, that with the uncertainty of help one did not dare undertake to work more land than he and his immediate family could carry through, and with the women folks counted in. Time and again last year, crops were grown that for lack of help were not harvested; berries went to waste by the bushel for lack of pickers. Farmers with broad acres upon which taxes must be paid, are compelled to let them be idle and operations are reduced to the small tract contiguous to the dwelling. But, great as the lament is over these conditions, they are compelled to confess that by manuring heavily, planting close with crops having a quick sale, and having something in the ground coming on and going all the time, the profits are increased, the labor required and running expenses are lessened, and anxiety is reduced to the minimum.

The owner of two farms reported letting out one of about 200 acres at four per cent on the price he paid for it, retaining for his own use one of twelve acres as quite as much as he could be sure of caring for. His figures for the year were:

Expended for manure, fertilizer, feed for stock and wages.....\$803.23
Income.....\$1,841.53

Profit.....\$1,038.30
Some of the details of income were: One acre asparagus, \$174.56; one-half acre scallions \$205.00; one acre potatoes, \$223.50; one-third acre peppers, \$72.41; four and one-half acres tomatoes, \$192.50; one-third acre cucumbers, \$25.50; poultry, \$160.00

Of course there is a moral to the story, and it is very plain to see. In garden or farm work don't try to do too much, don't go beyond your best capacities. *American Gardening.*

Spraying Potatoes.

As I have successfully used Bordeaux on my late potato fields five seasons, I will give my experience and opinion of the value of Bordeaux when faithfully used. The first season of spraying I planted one measured acre with northern grown Delaware seed, using 2,500 pounds of potato fertilizer, and as the season was very showery was obliged to spray six or seven times to keep the vines fairly well covered with Bordeaux and free from blight. In October I harvested from the above acre 420 bushels of large, smooth tubers. The second year of spraying I planted two and one-half acres, using one ton of fertilizer per acre; sprayed four times and harvested 800 bushels. In this, my second year of spraying, I succeeded in keeping my vines green much longer than desirable, as the tubers were not ripe and in good condition to dry and store until November, when the soil was very moist from the late Fall rains. The third season I planted one and one-half acres, sprayed three times and harvested 500 bushels, and the following season two acres, yielding 700 bushels, and last season (1903) two and one-half acres, from which I harvested 1,000 bushels of large smooth tubers, or an average yield of 360 bushels per acre from the nine and one-half acres planted and sprayed in the five above-mentioned years, which is fully twice the yield received from my fields unsprayed. *Rural New Yorker.*

London Purple For Cut-Worms.

For cut-worms mix a heaping tablespoonful of London purple with four quarts of wheat bran. Moisten it so you can handle it and scatter along rows or hills or broadcast over field. This is the most successful way to fight them. Sprinkled on lawns where worms are taking the grass, London purple has done excellent service in exterminating the pests.

THIS BOOK FREE

The essence of many volumes put into a nutshell by Prof. J. A. Nichols, A. M., and H. H. Goodrich, A. M. The biggest little book ever sold for the money, considering practical worth and durability. 1001 practical facts and figures for every day life specially arranged and systemized for **The Busy Man.**

The following is the Table of Contents in part, which speaks for itself.

The Hows of Business.

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Banks, How to do business with.
Papers, How to transfer.
Debt, How to demand payment.
Change, How to make quickly.
Wealth, How to obtain.
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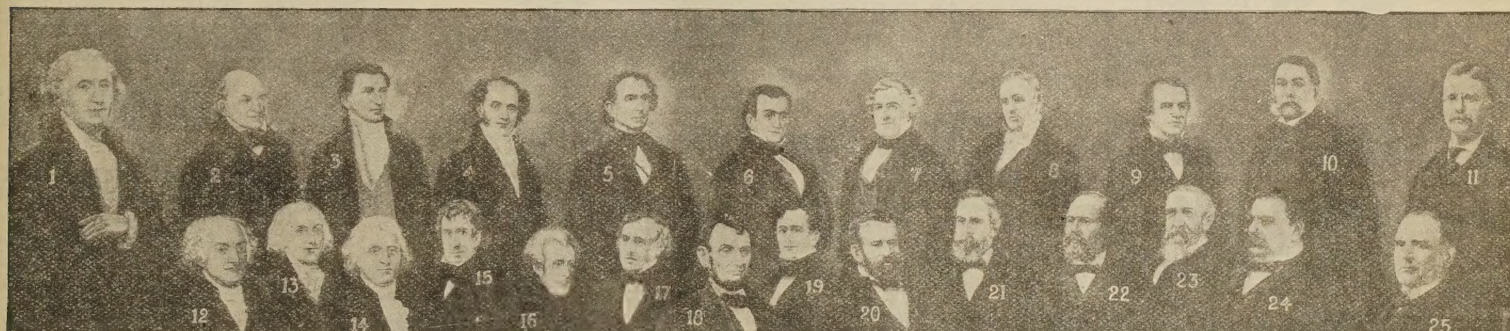
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Association.

(By A. M. Johnson.)

'Twas on a summer evening,
In the years of long ago,
That his love for me was plighted
In accents soft and low,
When all around was silent
Save the vesper sparrow's thrill,
And the sweet and plaintive singing
Of the lonely whippoorwill.

And now when'er the summer
In beauty doth appear,
His words so sweet and tender
Seem whispering in mine ear,
As at eventide I listen,
When all beside is still,
To the whippoorwill's sweet singing
And the vesper sparrow's trill.

In the Garden.

(Continued from Page Thirteen.)

position to engage in the work even on a small scale. But there are many who can, and we are interested and anxious to have every available reader enlist in the garden corps and get interested in the work that God first gave man to do.

Some Questions.

S. L. Austin, Akron, N. Y.—"I saw an article in your garden department referring to dry Bordeaux mixture. Where can one get those double cone bellows, and also the mixture? The bellows can be obtained at many of the hardware stores. The dry Bordeaux as also bellows can be had of nearly all the seed firms and a letter to your seed dealer will very likely give the needed information as also the articles themselves.

Ruth A. de Roche, Berlamont, Mich.—"I have heard that disparene is good to rid a garden of moles. If this is true how is it used? I am anxious to use a Bordeaux mixture on my garden stuff. The formulas are so large that I cannot get the right proportions for a hand sprayer? Do I spread the air-slacked lime over my asparagus rows the same as ashes over the ground? Do I put the nitrate of soda on the ground near the melons, and about how much?

I am unable to say definitely as to the virtue of disparene for moles, never having used it. There are several makes of mole traps that I think would be preferable to the disparene; nearly all the seedsmen advertise the traps and they are all good I think. As to the Bordeaux mixture, use four pounds fresh quick lime, four pounds vitriol, blue stone or sulphate of copper (all apply to the same article); and fifty gallons of water. Slack the lime carefully, starting with hot water. Keep it boiling for twenty to thirty minutes and stir frequently. Put the sulphate of copper in a sack and suspend in water until all is dissolved, using a wooden vessel. It is easy to dissolve in the barrel tin which the mixture is made and several gallons of water may be used. When dissolved, add nearly the full amount of water and thin the lime down to the consistency of water or milk. Strain through coarse cloth into the barrel and stir the mixture while adding the lime. These are the proportions for fifty gallons but less quantity can be made by preserving the same ratio. If carefully made, it should work in any sprayer that has a good nozzle.

The nitrate of soda may be spread around the plants; but do not allow it to get on the foliage. A small table spoonful is sufficient for a hill and it should be worked into the ground as soon as applied. Spread the lime on the rows or all over the ground the same as ashes. Salt is also good and may be applied the same.

Items of Interest.

What is said to be the largest log ever floated in Puget Sound has been towed into the Capital Box Factory pond. It is a forty-foot spruce log, nine feet through at the small end and fourteen feet through at the large end. It was cut on the Skagit river banks.

A kitten was lately brought up on an exclusively vegetarian diet by a London family of vegetarians. The result is that it will not touch animal food, and pays no attention to rats and mice that are purposely permitted to wander across its range of vision.

Book Notices.

Getting Acquainted with the Trees. By J. H. McFarland. To one just seeking acquaintance with our common trees, no more instructive or useful book could be found. The beautiful illustrations from Mr. McFarland's own inimitable photographs not only help to make the work exceedingly attractive but also serve as a guide to the identification of the trees described. The dimly outlined shadow pictures remind one of those cast by the moonlight or electric light on sidewalk, or window pane, which he has so often vainly wished might be preserved. The tree lovers who already have more or less acquaintance with the trees will find the book delightful, for their favorites are sure to be lovingly described and all their good points noted. No lover of trees can afford to be without this truly charming book. Published by The Outlook Company, 287 Fourth Ave., New York. Price \$1.75 net.

Little Gardens. By Charles M. Skinner. How to beautify city yards and small country spaces is well told in this little volume. The possibilities of a garden within the boundaries of a city lot, which perhaps only measures twenty-five by fifty or sixty feet, are most entertainingly and at the same time convincingly set forth, and those who are so fortunate as to possess larger grounds will find the suggestions practical and thoroughly reliable. A number of good illustrations and nearly thirty diagrams show what can be done in the way of making the most of a limited space. D. Appleton & Company, Publishers, New York. Price \$1.25 net. Postage ten cents additional.

Proceedings of the Forty-Ninth Annual Meeting of the Western New York Horticultural Society. The meetings of this well-known Society are always full of interest, and the reports are exceedingly valuable to every fruit-grower, as they are made up of the actual experience of the best horticulturists in the country. What varieties of fruits are most desirable to plant, the best methods of planting, cultivating, gathering, packing, storing and marketing are among the subjects discussed. Excellent portraits of Dr. Jordan, of the Geneva Experiment Station, and Doctors Roberts and Bailey of Cornell University are given in the frontispiece. Any one can become a member of the Society by sending a declaration to the Secretary, John Hall, Rochester, N. Y., and a copy of the proceedings will be sent free by mail.

The Fifteenth Annual Report of the Missouri Botanical Garden contains among other articles one on Typical Swamp Areas, and on Aberrant Vail Remnants in Some Edible Agarics which are particularly interesting. A large number of fine illustrations make a very attractive and valuable volume.

Country Life in America for June is a thoroughly interesting number from the first to the last page, and the illustrations are numerous and particularly fine. Doubleday, Page & Co., Publishers, New York, N. Y.

When Old Friends Meet.

Hello, Jack! Glad to see you,
How's the wife and little Mirander,
Hear she was sick with the summer measles,
Pesky things! There's meaner'n weasels
Had 'em once myself, yer know,
Never had a harder row to hoe.

How be I? Well now I say,
When you were here to'today
And saw me layin' thrax in the corner,
Guess you tho't I was a goner.
Tho't so myself, too, by golly,
Though I wouldn't let on so tu hum.

Didn't want the folks all afeard,
So I just looked at 'em and jeered,
Tho't the pain cut up some, ye said,
And often my eyes were a'most wet
With the tears that I couldn't keep back
It beat me more'n once, for a fact.

What got me up now? Now you're shoutin'
Don't blame me, Jack, if I gin a spoutin'
And most wear off a leg or arm
A'tellin' of this cure like a charm
That put me right up on my feet
When doctors and all were stone beat.

Vite Ore—the folks call it as tells it;
Vite—meanin' life, and Vite—troubles,
And life is what it gave me, that's certain
When the Lord had 'most rung down ther curtain

Why man! It's that quick, just like lightning'
Ther enemy just quit and stopped fightin'!

Take Hum some for the darter, Jack,
Use it and give all others ther sack;
Take my word for it hum to the wife
Just tell her I sure is the Ore of Life
And you'll learn to bless it just like me
That ought ter, as any and all can see.

A full-sized One Dollar package of Vite Ore—the Ore of Life—will be sent on thirty day's trial to every reader of this paper who requests it. Read the offer made on the back cover page in this issue by the proprietors, the Theo. Noel Company of Chicago.

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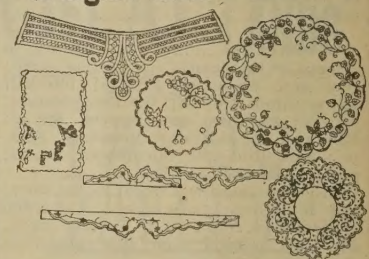
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Grandma's Sunday Shoes

(Continued from page five.)

women folks, and times are hard as mill stones, reckon I'll have to trade a yearling or shote for enough money to treat niece Olive to a few balls of embroidery silk, and Babe (my nickname) ought to have a pair of Sunday shoes about Christmas. And that reminds me that I promised niece Virginia a new cradle for her youngest brat. Say—how many young ones are there at Virginia's house now? Seven! and were all of them rocked in that old jig-ety-jig home made cradle? "Well, no wonder the poor thing creaks and groans like a wheezy beast, after serving seventeen, or is it seventy?—squallers. Most of 'em girl squallers too, by ginger!"

At first I looked forward with childish faith and eagerness to the promised gift, but alas for my expectations! Christmas, and Uncle Gideon with renewed promises, came and went with accustomed regularity, while I grew from a toddling infant to a tall girl; but my shoes!—

The winter of 18— was unusually severe, and during one of the coldest nights of that Arctic January, Uncle Gideon suddenly passed away. When news of his death was supplemented by a rumor that Lawyer Brief would, according to instructions, read the last will and testament of deceased immediately after the funeral, no little excitement and curiosity were aroused among our neighbors, and when the funeral rites were over quite a crowd braved a swirling snow storm to accompany Uncle Gideon's "heiresse" (?) to Lone Oak Cottage for the purpose of listening to the oft-discussed will.

And such a will! Really if it had not been for the solemnity of the occasion one could have laughed at the absurdity of poor Uncle employing a lawyer to write a document whose insignificant (?) bequests cost less than the lawyer's fee. According to the will it appeared that Uncle Gideon, instead of being a rich man was really as poor as his nieces. Shorn of its technical terms, Uncle Gideon's will "gave and bequeathed Lone Oak Cottage and its humble furnishings to his faithful servant Pompey." Sister Virginia was the recipient of a child's crib, sister Olive's share was a basket containing a dozen balls of silk floss; and my "legacy" was the oft-promised pair of Sunday shoes! After receiving our "legacies" the days passed in the same monotonous fashion at our house. Sister Olive's needle clicked steadily as of yore, Becky looked after the kitchen and loom, while I carded and spun wool rolls, tended the fowls, romped with sister Virginia's pretty babies and at intervals admired my fine Sunday shoes. In fact my admiration for my shoes was so intense (Becky called them my "leather gods") that I resolved not to wear them until the Fourth of July, by which time I hoped to sell enough broilers to treat myself to a new white dress. In this dress, and my Sunday shoes—I would attend the big barbecue, held annually at Cedar Grove, where in all probability my attire would eclipse every other costume on the premises. You remember the fable of "The Milk Maid and the Spilled Milk?" Well! At an early hour on that memorable Fourth of July, wagons, ox carts, and the more pretentious cariole, loaded with men women and children, the latter sandwiched between hamper of home-made delicacies—wended their way to Cedar Grove. I, however, had no intention of being numbered among those early visitors since I had decided to take extra pains—which called for extra time—with my toilet on that particular day. But fate in the person of burly Squire Johns, caused my well-laid plans to "gang aglaze." The Squire and his daughter had kindly offered me a seat in their carriage, and though their courtesy was highly appreciated I never dreamed they would call before sunrise. But they did—and I, of course, wasn't ready. And to make the matter worse the Squire's evident impatience at my tardiness threw me into such a nervous flurry I could not hook my dress straight, nor properly fasten my skirts. Neither was there any one to assist me since Olive and Becky

10 1904 10

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TO BOYS

Just send us your name and address so that we may tell you how to get this fine rifle. Absolutely FREE. **YOU CAN HAVE ONE**

As we are going to give away 5,000 of them. We mean it, every word, and this is an honest, straightforward offer, made by an upright business firm who always do exactly as they agree. All we ask is that you do a few minutes work for us. It is so very easy that you will be surprised. **This Handsome Rifle** is not a toy air rifle, but is a genuine steel, blue barrel, hunting rifle, that is strong, accurate and safe and carries a .22 calibre long or short cartridge. If you want a fine little hunting rifle, just write and ask us for particulars. They are free and you will surely say it's the best offer you ever saw or heard of.

BE SURE and WRITE AT ONCE before the 5,000 rifles are all gone, as the boys are taking them fast. Address

Peoples Popular Monthly,
452 Manhattan Building,
DES MOINES, IOWA.



had (like the Squire) "started early," the former to spend the day with Virginia, while Becky (perched on the tongue of an over-loaded ox wagon) was already en route to "de big bobby cule." As the Squire continued to mutter and grumble and cast fierce glances towards my window, I ran frantically from one garment to another, and finally concluded the insane performance by literally jumping into my pretty frock, jabbed a toothless tucking comb through my tousled hair; snatched my kerchief; (which proved to be Olive's night cap!) grabbed my hat by one string, while its mate trailed in the dust like an animated pink serpent—leaped into the carriage and away we went!

It all happened so quickly and the spirited horses made such good speed, that we were in sight of Cedar Grove before I made the mortifying discovery that I had forgotten to put on my Sunday shoes!

(To be continued in August number.)

Bravery.

MRS. CORA A. MATSON DOLSON.

Sing as you will of bravery,
Of men who die at duty's call;
I deem some loyal woman's breast
Has held the bravest heart of all.

A Dream.

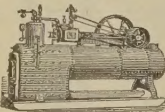
BY FRANK H. SWEET.

I went to sleep, and dreamed that I
Had climbed the ladder, fame,
And that the world was praising me
And honoring my name.

But when I woke, I found the dream
Was happily untrue;
The world was still before me, and
The glorious things to do.

Nagle Engine & Boiler Works,
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Manufacturers
of
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For all
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FREE TEA SET WE PAY THE FREIGHT.
SEND NO MONEY.

We will send the above latest pattern beautifully Embossed & Decorated Tea Set, full size, for family use & exactly as illustrated above, to any lady who will take orders for only 10 cans of our Baking Powder, & allow her to give free to each person ordering a can, a beautiful Gold & Floral Decorated China Fruit or Berry Set of 7 pieces, or we will pay cash commission. No trouble to take orders this way. Simply send your name & address & we will send you our plans, order blank, etc. We will allow you time to deliver the Baking Powder & collect the money before paying us. You run no risk, as we pay the freight & will trust you with the Baking Powder & Dishes. We also give away Dinner Sets, Dress Skirts, Couches, Furniture, etc. **KING MFG. CO. 670 KING BLDG., ST. LOUIS, MO.**

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Opium and all drug habits. Painless, permanent home cures. Nervous and physical systems fully restored to their normal condition. A full trial treatment alone often cures. Write us in confidence. St. Paul Association, Suite 854, 48 Van Buren Street, CHICAGO.

MONEY C.S.A. \$5 bill sent to any address for 25 cents. Will give \$50 to any one who can detect it. **Frank A. Shilling, Navarre, Ohio**

15 CENTS will bring you, on trial, 13 weeks, the **PATHFINDER**, the old reliable national news-review. This paper gives you every week ALL the important news of the world, stated clearly and without bias. It is the only news review that is truly comprehensive; and it is at the same time not padded or bulky. It gives you the wheat without the chaff. It is a time-saver for all busy people. In purpose it is high-toned, healthy and inspiring; it is a protest against sensational journalism. It takes the place of periodicals costing \$2.10 and \$3.00. Try it and you would not be without it for many times its cost—\$1.00 a year. Address: **The PATHFINDER, Washington, D. C.**

\$76,200.00 In Free Prizes.



SI PERKINS Took a Trip. He'd been a Storekeeper in a Vermont town for more than 80 years. Si had heard tell about "this big land of ours" but it all came second-hand and Si had now made up his mind to see "fur hisself." A shrewd Yankee trader in a little New England town always has a snug warren laid up in the village bank. So had Si—and he was going to spend some of it. **WHEE DID HE GO?** This is a great patriotic American geographical and educational contest. Big cash prizes amounting to over \$75,000.00 will be open to those who enter this contest. Study the pictures and see if you can follow Si.

Each of the pictures here represents a well known American city which Si visited. It takes **BRAINS and INTELLIGENCE** to study them out, but every American ought to be able to do it, or he ought to get down his geography and study the map of his country. As an aid to get you started right, we will tell you that No. 1 is the famous Massachusetts capital, noted for its laked beans—the last picture No. 12, is the freiside scene at Si Perkins home after he returned to Vermont—telling the family of his great trip. The rest of the places you must puzzle out for yourself.

From Boston Si went southward about 200 miles to **THE LARGEST CITY** in the Union. Then he went further south and stood in the heart of **TEXAS** city, which **A TIDAL WAVE** almost wiped out of existence two or three years ago. But he didn't stop there long. From Galveston he had a long ride to the Pacific coast and he made his first stop at the city of the **GOLDEN GATE**. Turning East, he visited the capital city of the **MISSISSIPPI** (picture No. 6). Farther East he stopped again on the banks of the Mississippi and here he paid a visit to the **GREATEST WORLD'S FAIR** of 1904. Then North, he spent three days in the famous **WINDY CITY**, on the shores of Lake Michigan—the second city in size of the country. Coming East again he visited **NIAGARA FALLS** and the city where in 1902 the Pan American Exposition was held. Then he started home again and reached Sharon, Vermont, prouder than ever of his native land and of the fact that he was an American citizen. Have you been able to follow him?

This puzzle is a little difficult, we know, but it is an excellent educational drill, especially in Geography, and you ought to work it out even if you don't send in your answer. Answers, however, are what we want, as we want the readers of this announcement to win these big cash prizes. We wouldn't give away the prizes we do if it were not for the advertising they bring us. We find that the distribution of big sums in prizes is a cheaper method of advertising than any other way we can take we offer you a chance to win **AN UNPARALLELED**

FIRST PRIZE OF \$25,000.00 IN CASH.

A Second Prize of \$10,000.00. A Third Prize of \$5,000.00. Fourth Prize of \$2,500.00. Fifth Prize, \$1,500.00. Sixth Prize, \$1,000.00. And, in addition, there are \$20,000.00 in other prizes, all in cash, and **FREE** for only one slight condition. The above are all money prizes.

In addition to this big distribution of **CASH** we add **THIRTEEN GRAND UPRIGHT PIANOS**, as subsidiary prizes. Someone is going to get a fortune in any one of the first half dozen big prizes, and the nearly two thousand **ADDITIONAL** prizes are something stupendous in themselves. Now, as an inducement to have you make early returns, we have one more list of **Cash Prizes** to offer. They are bonuses for early replies in this contest. **JUST \$15,500.00 IN EXTRA PRIZES** has been set aside for early answers; so you have a chance of getting altogether \$40,000.00 and a \$750.00 Grand Upright Piano. **ALL FREE.**

Use care in making out your answer and send it in to us. **IT COSTS YOU NOTHING.** You have an absolute chance for the **\$25,000.00 PRIZE** and just the same opportunity for catching up one of the 1883 additional prizes, which altogether aggregate \$76,200.00, not counting in the pianos. Consider what one of these prizes would mean to you! If you got **JUST ONE** you'd be **INDEPENDENT FOR LIFE**. It would bring enough to keep the whole family a lifetime. Or if you should only get a **\$750.00 GRAND UPRIGHT PIANO** you would be more than repaid for the little effort required. The prizes will really be given, and the loss of your chance will be due solely to yourself, if you don't take interest enough to send in your answer and comply with the slight condition referred to of securing subscriptions. **DON'T LET THE LACK OF FAITH OF DISREPUTABLE HOUSES KEEP FROM ENTERING OUR CONTEST.** We can assure you that our patrons have shared in the distribution of **MORE CASH PRIZES** than those of almost any other publishing house in the world. In our files of letters are hundreds of testimonials from those who have won money. **WRITE TO THEM AND FIND OUT FOR YOURSELF.** When you send in your answer, we will return you the names of at least two hundred past winners. In the last three years the prize money in the distribution of which patrons of the house have participated passed \$100,000.00! Amounts paid to single persons ranged from \$1.00 to \$15,000.00.

What we want to impress upon your mind is the fact that **THESE PRIZES WILL ACTUALLY BE GIVEN.** If you name the cities Si Perkins visited and comply with the condition referred to above you may share in this \$76,200.00 prize distribution. If you live at a distance your chance is just as good as though you lived in Boston. Priority in receipt of letters does not count. **REMEMBER WE DON'T WANT ONE CENT MORE MONEY FOR ANSWERING THIS CONTEST.** After you have named the cities, mail your answer to us, and receive our reply and testimony to **IT COSTS YOU NOTHING TO TRY.**—remember that,—so if you now persist in putting it off, you have your own self to blame. All these prizes, except the pianos, will positively be paid in cash. And even if you can't make out all the names make out part of them and send them in. **NOW'S YOUR TIME.**

\$76,200.00 WILL BE PAID IN CASH.

Someone will win. Why not you? **YOU SURELY OUGHT TO GET SOMETHING OUT OF THE GRAND TOTAL.** Then why not try? Think what ease \$25,000.00 would put you in! It would buy you an elegant house—a mansion, in fact. The smaller prizes, even, are a Poor Man's fortune. Just one would raise an **OLD DEBT**, or pay your expenses abroad. Think what an agreeable surprise to get an express order for \$25,000.00, or \$10,000.00 or even \$5,000.00. **SOMEONE, WE GUARANTEE YOU, IS GOING TO GET THIS MONEY**—may be you! Write now. There are 1883 prizes and your chances for one or more are excellent. Write at once to

WOOD PUBLISHING CO., DEPT. 158 CONGRESS ST., BOSTON, MASS.

